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Annual Report
of the
President
of the
Borough of Queens
1919

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ANNUAL REPORT

OF THE

PRESIDENT

OF THE

BOROUGH OF QUEENS

1919

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MAURICE E. CONNOLLY, PRESIDENT

CITY OF NEW YORK
OFFICE OF THE
PRESIDENT OF THE BOROUGH OF QUEENS

Long Island City, December 18, 1920.

HON. JOHN F. HYLAN, Mayor,
The City of New York.

SIR:

In compliance with the provisions of Section 383 of the Charter of The City of New York I submit herewith a report showing the operations of the various departments under my supervision for the year ended December 31, 1919.

Yours very truly,

MAURICE E. CONNOLLY,
President of the Borough of Queens.

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THE CITY OF NEW YORK

OFFICE OF THE PRESIDENT OF THE BOROUGH OF QUEENS

MAURICE E. CONNOLLY, *President*

The Charter of The City of New York provides that the President of the Borough shall submit to the Mayor, annually, a report showing the operations of the various departments under his supervision. A summarized report for the year ended December 31, 1919, has been prepared and is herewith transmitted.

The City of New York is divided into five boroughs for the purpose of administering the functions of municipal government that are local in character. The Borough of Queens consists of the territory known as Queens County and the electors thereof elect a President for a term of four years. By virtue of his office the President is a member of the local boards of every district of local improvement in his borough and is chairman thereof. The President is also a member of the Board of Estimate and Apportionment and a member of the Board of Aldermen. The President has control of regulating, grading, curbing, flagging and guttering of streets and laying of cross-walks, of constructing and repairing public roads, of paving, repaving, resurfacing and repairing of all streets, and of the relaying of all pavement; of the laying of surface railroad tracks, the filling of sunken lots, fencing of vacant lots, digging down lots, licensing vaults under sidewalks, removal of encumbrances, the issue of permits to use or open the streets. He has control of the construction and maintenance of all bridges and tunnels except such bridges as cross navigable streams; the construction and supervision of sewers, of the construction, repairs, cleaning and maintenance of public buildings (except school houses, almshouses, penitentiaries and fire and police station houses), of the care and cleaning of all offices occupied for public use; of the location, establishment, care, erection and maintenance of the public baths, public urinals and public comfort stations; and of the placing of all street signs, of the cleaning of the streets, the removal of ashes, street sweepings and garbage; of the framing of regulations controlling the use of sidewalks and gutters.

The office of the President of the Borough is divided into eight bureaus, each of which performs certain designated functions. These bureaus are: (1) Administration, (2) Highways, (3) Engineering Construction, (4) Sewers, (5) Street Cleaning, (6) Public Buildings and Offices, (7) Topographical, (8) Supervision of Building Construction and Alteration.

LOCAL BOARDS

For the purposes of home rule and local improvements the Borough of Queens is divided into two districts, called Newtown (Wards 1 and 2) and Jamaica (Wards 3, 4 and 5). In each of these districts is a board of local improvements known as "the local board," entrusted with the powers prescribed by the Charter. The local boards have jurisdiction over those subjects or matters the costs and expenses whereof are a charge upon the people or property of the district for local administration within such district. The local board consists of the President of the Borough and each member of the Board of Aldermen who represents an Aldermanic district within such local improvement district.

LOCAL BOARDS REPORT OF 1919

PETITIONS CONSIDERED					IMPROVEMENTS INITIATED				CLASS	Total Estimated Cost of Improvements Initiated
1st Quar- ter	2nd Quar- ter	3rd Quar- ter	4th Quar- ter		1st Quar- ter	2nd Quar- ter	3rd Quar- ter	4th Quar- ter		
16	32	20	12	9	8	20	17	9	Sewer construction.....	\$3,642,972.19
..	..	..	1	1	..	..	..	1	Construction of basins in accordance with Section 435 of the Charter.....	200.00
16	23	3	11	9	4	10	3	9	Regulating, grading, curbing, recurling, flagging, reflagging, constructing receiving basins, sewer manholes and appur- tenances and crosswalks.....	161,970.00
5	3	2	..	..	2	2	2	..	Regulating, grading and guttering.....	151,450.00
2	1	2	1	1	1	1	2	1	Curbing, recurling, laying sidewalks and crosswalks, in accord- ance with Section 435 of the Charter.....	970.00
8	8	2	3	2	3	6	2	2	Regulating, grading and laying sidewalks.....	67,840.00
3	12	5	4	1	1	5	4	2	Regulating, grading, curbing, laying sidewalks and crosswalks..	46,550.00
6	4	1	2	..	..	4	1	1	Paving.....	46,000.00
3	1	1	2	..	..	1	..	1	Regulating, grading, curbing, laying sidewalks and paving.....	40,000.00
2	..	..	..	..	..	..	..	..	Amending Map.....	.....
12	18	15	5	2	5	7	6	2	Acquiring title.....	.....
3	4	7	7	1	1	2	..	2	Amendment of zones.....	.....
1	1	..	2	..	..	..	..	..	Water.....	.....
5	..	2	2	..	..	..	..	..	Gas and Electricity.....	.....
82	107	60	52	30	25	58	37	30		\$4,157,952.19

RESOLUTIONS RECONSIDERED

Amended.....	5	Filed.....	1
Rescinded.....	25	Laid Over.....	68
Petitions Denied.....	38		

DIVISION OF AUDIT AND ACCOUNTS

APPROPRIATIONS 1918 AND PRIOR YEARS

Cash Balance as at Dec. 31, 1918	\$177,858.48
<i>Additions:</i>	
Transfers, Adjustments and Reconciliations	2,707.45
Total Cash	\$180,565.93
<i>Less:</i>	
Transfers to General and Other Funds	35,559.94
Net Funds Available for 1919	\$145,005.99
<i>Disbursements:</i>	
Net Amount of Vouchers Registered and Transmitted to Department of Finance During 1919	127,154.80
Cash Balance as at Dec. 31, 1919	\$17,851.19

APPROPRIATIONS 1919

Budget Allowance as at Jan. 1, 1919	\$2,396,378.66
<i>Additions:</i>	
Cash Deposited During 1919	\$180.78
Transfers, Adjustments, Reconciliations	66,897.59
Total Additions, 1919	67,078.37
Total Cash	\$2,463,457.03
<i>Less:</i>	
Transfer of Accruals, Adjustments and Reconciliations	\$39,975.86
Net Cash Available for 1919	\$2,423,481.17
<i>Disbursements:</i>	
Net amount of Vouchers Registered and Transmitted to Department of Finance During 1919	2,305,522.96
Cash Balance as at Dec. 31, 1919	\$117,958.21
<i>Reserves:</i>	
For Contracts	\$63,595.95
For Open Market Orders	18,598.52
Total Reserves as of Dec. 31, 1919	\$82,194.47
Unencumbered Balance as at Dec. 31, 1919	\$35,763.74

SPECIAL REVENUE BONDS

Cash Balance as at Dec. 31, 1918	\$54,900.99
<i>Additions:</i>	
Adjustment Authorizations, Miscellaneous	\$7,105.10
Authorizations—Board of Estimate and Apportionment During 1919.....	357,601.96
Total Additions, 1919.....	364,707.06
Total Cash.....	\$419,608.05
<i>Less:</i>	
Transfers, Adjustments, Reconciliations, etc.	45,180.77
Net Cash Available for 1919.....	\$374,427.28
<i>Disbursements:</i>	
Net Amount of Vouchers Registered and Transmitted to Department of Finance During 1919.....	201,869.16
Cash Balance as at Dec. 31, 1919.....	\$172,553.12
<i>Reserves:</i>	
For Contracts.....	\$109,203.81
For Open Market Orders.....	680.87
For Payrolls.....	58,631.42
Total Reserves Dec. 31, 1919.....	\$168,516.10
Unencumbered Balance as at Dec. 31, 1919.....	\$4,042.02

CORPORATE STOCK FUNDS

Cash Balance as at Dec. 31, 1918	\$1,181,478.78
<i>Additions:</i>	
Authorizations as per Resolution of Board of Estimate and Apportionment during 1919.....	\$1,213,883.50
Authorizations for Account of Code CFM 25, Cash Re- ceived during 1919.	2,889,295.24
Total Additions Year 1919.....	4,103,178.74
Total Cash.....	\$5,284,657.52
<i>Less:</i>	
Transfers, Rescindments, Adjustments and Reconciliations.....	\$251,257.00
Net Cash Available for 1919.....	\$5,033,300.52
<i>Disbursements:</i>	
Net Amount of Vouchers Registered and Transmitted to Department of Finance During 1919.....	\$2,415,789.20
Cash Balance as at Dec. 31, 1919.....	\$2,617,511.32
<i>Reserves:</i>	
For Contracts.....	\$2,239,662.35
For Open Market Orders.....	467.46
For Miscellaneous.....	27,342.83
Total Reserves as of Dec. 31, 1919.....	\$2,267,472.64
Unencumbered Balance as at Dec. 31, 1919.....	\$350,038.68

SPECIAL AND TRUST FUNDS

Cash Balance as at Dec. 31, 1918.....	\$42,973.95
<i>Additions:</i>	
Cash Receipts from Issuance of Permits, Deposited with City Chamberlain During 1919.....	51,910.50
Total Cash Available for 1919.....	\$94,884.45
<i>Disbursements:</i>	
Net Amount of Vouchers Registered and Transmitted to Department of Finance During 1919.....	30,671.34
Cash Balance as at Dec. 31, 1919.....	\$64,213.11
<i>Reserves:</i>	
For Open Market Orders.....	\$4,113.82
For Refunds (Code S 7 Q).....	2,135.80
Total Reserves as of Dec. 31, 1919.....	6,249.20
Unencumbered Balance Dec. 31, 1919.....	\$57,963.91

DIVISION OF PURCHASE AND STORAGE OF SUPPLIES

All supplies, equipment and materials, are purchased through this division on requisitions submitted by the directors of the various bureaus; after obtaining estimates on appropriate specifications from reliable concerns. Open Market Orders are then issued to the lowest bidders. All vouchers are prepared for payment in this division.

Contract and Open Market Order issued during 1919:

DIVISION OF PURCHASE AND STORAGE OF SUPPLIES

1919	Orders Issued	Appropriation Accts.	Revenue Bonds	Corporate Stock	Special and Trust Funds	Total
January.....	302	\$16,396.53	*\$898.75	\$14.78	\$380.00	\$15,892.56
February.....	273	20,695.21	.....	383.79	120.00	21,199.00
March.....	325	18,919.37	.....	117.67	160.00	19,197.04
April.....	345	19,058.59	.....	295.50	350.00	19,704.09
May.....	266	13,935.75	.....	241.50	150.00	14,327.25
June.....	184	38,780.50	.....	94.30	400.00	39,274.80
July.....	269	51,966.94	.....	154.50	406.50	52,527.94
August.....	263	32,017.64	1,885.49	505.00	80.00	34,488.13
September.....	296	22,059.67	.....	1,314.00	681.58	24,055.25
October.....	324	21,585.17	350.00	320.00	775.00	23,030.17
November.....	291	48,219.85	.....	656.00	360.00	49,235.85
December.....	255	38,047.76	1,189.80	87.46	347.69	39,672.71
Total.....	3,393	\$341,682.98	\$2,526.54	\$4,184.50	\$4,210.77	\$352,604.79

* Reduction, due to cancellations.

DIVISION OF APPOINTMENTS

This division prepares the documents necessary to make effective all appointments, resignations and other changes in the personal service and keeps the official history of individual employees.

The following statement shows the number of appointments, transfers, increases in salaries, changes in title, promotions, suspensions and separations from the service:

Permanent appointments.....	88	Promotions.....	35
Temporary appointments.....	21	Suspensions (lack of work).....	7
Re-assignments.....	190	Suspensions (lack of funds).....	3
Departmental transfers.....	14	Discontinued (death).....	14
Interdepartmental transfers.....	10	Discontinued (resigned).....	45
Increase in salaries.....	1,465	Discontinued (dismissed).....	33
Changes in title.....	24	Retired.....	1

DIVISION OF CONTRACTS

This division prepares advertisements soliciting bids on contract work. It tabulates the bids received and the security deposits submitted therewith and keeps records of the progress of work under all contracts.

During 1919, there were contracts awarded for \$3,643,625.86, as follows:

	Awards	Appropriation Accounts	Special Re- venue Bonds	Corporate Stock	Total
January.....	5	.....	.....	\$387,189.61	\$387,189.61
February.....	9	.....	.....	609,965.05	609,965.05
March.....	8	.....	.....	20,185.90	20,185.90
April.....	25	\$70,172.00	\$22,347.50	410,762.85	503,282.35
May.....	3	3,718.73	.....	97,450.30	101,169.03
June.....	5	30,700.00	.....	4,958.32	35,658.32
July.....	17	6,197.67	167,782.00	99,026.58	273,006.25
August.....	17	19,485.00	.....	969,300.90	988,785.90
September.....	8	.....	.....	27,814.68	27,814.68
October.....	9	44,073.50	.....	24,233.00	68,306.50
November.....	17	3,075.00	4,605.00	349,859.45	357,539.45
December.....	11	.....	10,397.61	260,352.21	270,749.82
Totals.....	.....	\$177,421.90	\$205,132.11	\$3,261,098.85	\$3,643,652.86

DIVISION OF MAILING AND FILING

During 1919 there were 17,406 pieces of mail matter received and distributed which, after proper recording were placed in the files. The outgoing mail matter numbered 43,495. An index filing system is maintained in this division.

DIVISION OF PERMITS
REPORT FOR 1919

Permits Issued	Kind	RECEIPTS										Totals
		Special and Trust Fund S101	General Fund	Sinking Fund	Code S 7 Q	Code 730	Privi- lege	Special Security Deposits	Code CFM 25	Code CPQ 10B	Code 727	
6,667	Restoring and Repaving... Inspection Fees.....	\$30,592.21 11,995.00										
365	Rest. and Rep. Excess.... Store Material.....	2,679.93										
410	Cross Walk.....							\$10,900.00				
49	Move Steam Shovel.....							4,100.00				
134	Miscellaneous.....							490.00				
54	Vaults.....							1,954.60				
1	Rent of Steam Roller.....		\$10.00									
3,259	Sewers and Drains.....		16,445.00									
	Sale of Sewer Material.....		50.00									
4	Roof and Shed.....		20.00									
	Privileges.....						\$2,226.69					
	Carfare Rebates.....											
	Sale of Maps.....										\$64.18	
84	Private Sewer.....				\$6,454.24							
139	Repair Sewer, No Charge..											
144	Signs.....		350.00									
	F. L. Paino Refund.....								\$107.24			
	Brooklyn, Queens Co., & Sub. R. R. Co. Refund..									432.82		
	Brooklyn Heights R.R. Co.										\$2,698.05	
4,252	Permits to Corporations...											
		\$45,267.14	\$16,875.00	\$3,361.70	\$6,454.24	\$116.60	\$2,226.69	\$17,444.60	\$540.06	\$2,698.05	\$64.18	\$95,048.26
DISBURSEMENTS												
Refunds:												
647	Restoring and Repaving.											\$9,750.05
6	Sewers and Drains.....											30.00
360	Miscellaneous.....											10,548.40
												\$20,328.45

BUREAU OF HIGHWAYS

There were received 3,665 complaints as to roadway, sidewalk and drainage conditions, and also as to roadway and sidewalk obstructions and encroachments, by written communications and telephone messages.

During the summer months, there were received about 500 complaints as to the dusty condition of roadways, which were attended to by spreading oil and sprinkling water. There also were received approximately 100 complaints as to lack of street signs, particularly in the 4th and 5th Wards.

The number of complaints above stated does not include those received by the various corporation yards, which are attended to direct from these points.

As the result of these complaints there were issued to foremen 2,397 work orders and 1,092 orders to restore roadways that had been opened by plumbers.

WORK PERFORMED

Macadamized Streets:

Macadam pavement repaired	sq. yds.	279,483
" " cleaned	"	452,341
" " sanded	"	23,496
" " tarred	"	90,042
" " sprinkled	"	177,092
" " finished	"	298,676
Dirt wings honed and cleaned	"	639,559
Gutters cleaned	lin. ft.	802,122

Paved Streets:

Granite pavement repaired	sq. yds.	33,830
Brick " "	"	11,847
Wood block " "	"	6,032
Asphalt block " "	"	9,073
Hassan " "	"	194
Slag block " "	"	206
Sheet asphalt " "	"	651
Asphalt concrete pavement repaired	"	24,367
" " finished	"	26,738
Flagstones relaid	sq. ft.	3,026
Gutters built and repaired	lin. ft.	10,080
Curb reset	"	1,434
Headers set	"	2,977

Unimproved Streets:

Roadway graded	sq. yds.	437,903
" scraped and hoed	"	1,516,178
" turnpiked	"	1,796,565
" filled in with sand and ashes	"	174,237
Dirt sidewalk graded	"	4,389
Roadway oiled	"	1,843,789
" sprinkled	"	5,000
Crosswalks graded	"	4,038
Roadway ploughed	"	4,105
Gutters formed and cleaned	lin. ft.	735,350

Trees and Weeds:

Weeds cut down and removed.....	sq. yds.	26,834
Dead and dangerous trees cut down and removed.....		6

Culverts:

Culverts cleaned out.....	lin. ft.	1,348
Wood culverts repaired and built.....	"	1,141
Pipe laid.....	"	160

Bridges:

Guard rail repaired.....	lin. ft.	124
Planking relaid.....	sq. ft.	6,030

Catch Basins:

Catch basins cleaned out.....		9
" " built.....		7

BUREAU OF ENGINEERING CONSTRUCTION

DIVISION OF HIGHWAYS

The Highway Division of the Bureau of Engineering Construction supervises the work done under contract for Highway Improvements and also the restoration of pavements over openings made by contractors for construction of sewers.

A very important part of the work of this Division consists of inspection of condition and of repairs to pavements, concrete curb and cement sidewalk, and restoration of pavements disturbed by plumbers, public service corporations and sewer and water contractors, under maintenance by contractors. This work is done under an Assistant Engineer and seven men.

The removal of encroachments on streets is also supervised by this Division.

CONTRACTS PREPARED FOR PUBLIC IMPROVEMENTS DURING 1919

Improve- ment	Location	Limits	Ward	Amount of Bid
RGCF	88th Av.....	102nd to 104th Sts.....	4	\$2,224.25
RGCF	124th St.....	Metropolitan to Jamaica Aves.....	4	9,595.10
RGCF	125th St.....	Jamaica to 89th Aves.....	4	5,042.00
F	150th St.....	Beaver to South Roads.....	4	826.00
RGCF	Emerson St.....	Freedom Ave. to Oxford St.....	4	6,259.30
RGF	Armand Place.....	Walter St. to 250' south.....	2	1,275.55
RGCF	102nd St., W. S.....	Jamaica Ave. to Park Lane South.....	4	217.50
RGCF	123rd St.....	220' N. of 85th Ave. to 89th Ave.....	4	13,862.50
RGCF	87th Ave.....	80th to 85th Sts.....	4	2,538.75
RGCF	Skillman Ave.....	3rd to 5th Sts.....	2	4,154.55
RG	Mount St.....	Hunterspoint to Thomson Aves.....	1	1,388.20
RGCF	Gamma Plaza.....	Cooper to Myrtle Aves.....	2	1,880.00
RGCF	85th Road.....	83rd to 91st Sts.....	4	8,462.50
RGF	Sanford Ave., N. S.....	Boerum Ave. to Murray St.....	3	148.50
RGCF	87th Road.....	78th to 80th Sts.....	4	1,539.50
RGF	Hillside Ave.....	N. Morris to Metropolitan Aves.....	4	1,278.75
RGF	Barclay Ave.....	Parsons Blvd. to 147th St.....	3	589.20
RGF	Delaware Ave., S. S.....	Parsons Blvd. to 147th St.....	3	270.00
RGF	153rd St., E. S.....	Northern Blvd. to 34th Ave.....	3	1,434.00
RGF	Gates Ave., N. W. S.....	Grandview to Forest Aves.....	2	1,040.50
RGF	Grove St.....	Prospect to Forest Aves.....	2	
RGCF	93rd Ave.....	102nd St. to L. I. R. R., R. B. Div....	4	2,257.00
RGCF	Olmstead Place....	Myrtle Ave. to Cypress Hills Cem....	2	3,226.50
RGCF	Edison Place.....	Myrtle Ave. to Cypress Hills Cem....	2	2,297.50
RGF	109th St., W. S.....	101st to Liberty Aves.....	4	2,291.05
RGCF	Queens Blvd., S. S.....	Harold to Gosman Aves.....	1	11,245.50
RG	Buckley St.....	Hunterspoint to Thomson Aves.....	1	5,280.00
RGCF	Hancock St.....	Cypress to Myrtle Aves.....	2	1,735.60

CONTRACTS PREPARED FOR PUBLIC IMPROVEMENTS DURING 1919—Continued

Improve- ment	Location	Limits	Ward	Amount of Bid
RG	Moore St.	Nelson to Hunterspoint Aves.	1	\$8,875.00
RGCF	Roosevelt Ave.	200' N. of Alburtis to Woodside Ave. .	2	126,602.40
RGCF	St. Felix Ave.	Walter St. to Charlotte Place.	2	4,479.15
RG	16th Ave.	Jamaica Ave. to 285' S. W. of Grand Ave	1	26,064.00
RGCF	Chaffee St., E. S. . .	Hughes St. to N. S. Chaffee Place.	2	215.50
RGCF	149th St., E. S. . . .	20' S. of Sanford Ave to Beach Ave. . .	3	1,196.50
RGCF	Wayne St., N. S. . .	Morton to Griffith Aves.	2	1,245.00
RGCF	Lowery St.	Queens Blvd. to Foster Ave.	1	7,683.00
RGCF	Broad St.	Grand St. to Clinton Ave.	2	12,293.00
RGF	Cherry Ave.	Parsons Blvd. to 147th St.	3	1,029.00
RGF	Jamaica Ave., N. S. .	Queens Blvd. to Lewis St.	4	237.50
RGF	98th Ave.	218th St. to Springfield Blvd.	4	1,112.00
RGCF	2nd St.	Woodside to Stryker Aves.	2	5,189.10
RG	4th St.	Queens Blvd. to Woodside Ave.	2	14,078.00
RGCF	50th St.	Jackson to Burnside Aves.	2	13,379.25
RGCF	91st Ave.	Borough Line to 84th St.	4	18,814.00
RGCF	84th St.	90th Road to 91st Ave.	4	
RGCF	182nd Place, E. S. .	Jamaica to 91st Aves.	4	1,395.00
RGCF	Gunther St.	51st St. to Peartree Ave.	2	23,239.00
RGCF	Ferguson St.	51st St. to DePeyster Ave.	2	
RGCF	Roosevelt Ave., S. S.	51st St. to Tieman Ave.	2	
45 Bids Amounting to.				\$359,485.60
Pave	16th Ave.	Grand Ave. to 285' S. W.	1	\$57,782.50
"	Hancock St.	Wyckoff Ave. to L. I. R. R., Evergreen Branch.	2	4,942.50
"	Edison Place.	Wyckoff Ave. to Cypress Hills Cemetery	2	7,471.00
"	Lotus Ave.	Cooper Ave. to Cypress Hills Cemetery .	2	15,899.00
"	Silver St.	Anthon to Buchman Aves.	2	7,707.00
"	Summerfield St. . .	Wyckoff to Myrtle Aves.	2	41,795.00
"	Trowbridge St.	Willow St. to Van Alst Ave.	1	7,185.00
"	Anthon Ave.	Myrtle to Halleck Aves.	2	6,498.50
"	4th Ave.	Broadway to Jamaica Ave.	1	22,138.30
"	Freedom Ave.	Jamaica Ave. to Fenhurst Place.	4	45,745.00
"	Hunterspoint Ave. .	Viaduct to Creek St.	1	28,685.00
"	Nurge St.	Emma to Martin Sts.	2	3,730.50
"	Olmstead Place.	Myrtle Ave. to Cypress Hills Cemetery .	2	7,205.00
"	Roland St.	Potter to Woolsey Aves.	1	13,885.00
"	Van Cortland Ave. .	Buchman Ave. to Fresh Pond Rd.	2	9,159.75
"	Centre St.	Cypress to Seneca Aves.	2	7,720.00
"	Decatur St.	Wyckoff to Cypress Aves.	2	15,210.00
"	Ely Ave.	Jamaica to Grand Aves.	1	20,670.00
"	Olmstead Place.	Cooper Ave. to 175' S. of Central Ave. .	2	23,528.35
"	Vanderventer Ave. .	5th to 14th Aves.	1	59,732.50
20 Bids Amounting to.				\$345,689.90

CONTRACTS PREPARED FOR PUBLIC IMPROVEMENTS DURING 1919—*Continued*

Improve- ment	Location	Limits	Ward	Amount of Bid
Repave	4th St.....	Vernon to Jackson Aves.....	1	\$5,621.25
"	East Ave.....	Borden to Hunterspoint Aves.....	1	14,837.00
"	Hamilton St.....	Webster N. to Vernon Aves.....	1	40,777.50
"	1st Ave.....	Graham Ave. to Broadway.....	1	16,832.70
"	{ Jackson Ave.....	Thomson Ave. to Bridge Plaza So. R.R.	1	{ 31,075.00
"	{ Jackson Ave. (R.R.)	Thomson Ave. to Bridge Plaza So. R.R.	1	{ 3,532.50
"	{ Jackson Ave. (R.R.)	Bridge Plaza So. to 2nd Ave.....	1	{ 17,860.00
"	{ Jackson Ave.....	Bridge Plaza So. to 2nd Ave. R.R....	1	{ 40,365.00
"	Jackson Ave.....	2nd Ave. to Old Newtown Road.....	1	108,935.00
"	Jackson Ave. (R.R.)	2nd Ave. to Old Newtown Road.....	1	12,690.00
"	{ 13th St.....	2nd to 9th Aves.....	3	70,040.00
"	{ 13th St. (R.R.)....	R.R.....	3	38,890.00
"	Main St. (R.R.)....	2nd to 9th Aves.....	3	6,125.00
"	Broadway.....	Broadway to Jamaica Ave.....	3	37,501.00
"	{ Broadway.....	Murray Lane to 30th St.....	3	21,681.00
"	{ Corona Ave., S. S....	Broadway to Louona Ave.....	2	34,693.10
"	{ Corona Ave., S. S....	Alburtis to Colonial Aves.....	2	{ 29,445.00
"	{ Corona Ave., N. S....	Varick St. to 51st St.....	2	{ 29,445.00
"	Cooper Ave.....	150' E. of Dry Harbor Road to L. I. R.R., Montauk Div.....	2	11,547.50
"	Jackson Ave.....	Junction Ave. to 26th St.....	2	32,769.00
"	Rockaway Plank Rd.	Borough Line to Locust Ave.....	4	159,082.00
"	Hillside Ave.....	Grand St. to Rocky Hill Road.....	4	171,316.00
8 City area.....				\$468,849.45
5 Railroad area.....				194,734.50
5 County roads.....				267,536.60
18 Bids Amounting to.....				\$930,920.55
Repair	Sheet asphalt, 1st and 2nd Wards.....			\$13,775.00

RECAPITULATION

Bids	Amount	Total
45 For regulating and grading streets.....	\$359,485.60	
20 For paving.....	345,689.90	
8 For repaving City area.....	468,649.45	
5 For repaving R.R. area.....	194,734.50	
5 For repaving County roads.....	267,536.60	
1 For repairs to sheet asphalt pavements.....	13,775.00	
		\$1,649,871.05
1 Bid rejected.....		29,280.00
85 Bids opened at total cost of.....		\$1,679,151.05

ASSESSMENT CONTRACTS COMPLETED DURING 1919

Improve- ment	Location	Limits	Ward	Amount
RGCF	88th Ave.	102nd to 104th Sts.	4	\$2,160.17
RGCF&G	124th St.	Jamaica to Metropolitan Aves.	4	8,609.42
RGCF	125th St.	Jamaica to 89th Aves.	4	4,763.06
F	150th St.	Beaver to South Roads.	4	834.85
RGCF&G	Emerson St.	Freedom Ave to Oxford St.	4	5,678.88
RGF	Armand Place.	Walter St. to 250' south.	2	1,171.65
F	102nd St., W. S.	Jamaica Ave. to Park Lane South.	4	174.00
RGCFXw&G	123rd St.	220' No. of 85th to 89th Aves.	4	12,916.25
RGCF	87th Ave.	80th to 85th Sts.	4	2,267.12
RGCF&G	Skillman Ave.	3rd to 5th Sts.	2	3,354.00
RG	Mount St.	Huntspoint to Thomson Aves.	1	1,489.41
RGCF	Gamma Place.	Cooper to Myrtle Aves.	2	1,698.79
RGCF	85th Road.	83rd to 91st Sts.	4	8,074.21
F	Sanford Ave., N. S.	Boerum Ave. to Murray St.	3	146.85
RGCF	87th Road.	78th to 80th Sts.	4	1,300.07
RGF	Hillside Ave.	N. Morris to Metropolitan Aves.	4	1,188.30
RGF	Barclay Ave.	Parsons Blvd. to 147th St.	3	373.36
RGF	Delaware Ave., S. S.	Parsons Blvd. to 147th St.	3	216.00
RGF	153rd St., E. S.	Northern Blvd. to 34th Ave.	3	1,428.42
RGF	Gates Ave.	Grandview to Forest Aves.	2	834.59
RGF	Grove St.	Prospect to Forest Aves.	2	
RGCF	93rd Ave.	102nd St. to L. I. R. R. (R. B. Div.).	4	2,139.48
RGCF	Olmstead Place.	Myrtle Ave. to Cypress Hills Cem.	2	3,252.70
RGCF	Edison Place.	Myrtle Ave. to Cypress Hills Cem.	2	2,369.17
RGCF	Hancock St.	Myrtle to Cypress Aves.	2	1,713.57
RGF	Wayne St., N. S.	Morton to Griffith Aves.	2	1,173.00
25 Contracts completed.				\$69,327.32

ASSESSMENT CONTRACTS FOR PAVING COMPLETED DURING 1919

Improve- ment	Location	Limits	Ward	Amount
Pave	16th Ave.	Grand Ave. to 285' S. W.	1	\$5,609.35
"	Hancock St.	Wyckoff Ave. to L. I. R. R., Ever- green Branch.	2	4,756.68
"	Edison Place.	Wyckoff Ave. to Cypress Hills Cem.	2	7,454.97
"	Silver St.	Anthon to Buchman Aves.	2	7,314.96
"	Summerfield St.	Wyckoff to Myrtle Aves.	2	41,236.11
"	Anthon Ave.	Myrtle to Halleck Aves.	2	6,227.22
"	Freedom Ave.	Jamaica Ave. to Fenhurst Place.	4	43,514.70
"	Huntspoint Ave.	Viaduct to Creek St.	1	28,137.92
"	Nurje St.	Emma to Martin Sts.	2	3,705.51
"	Olmstead Place.	Myrtle Ave. to Cypress Hills Cem.	2	7,193.66
"	Van Cortlandt Ave.	Buchman Ave. to Fresh Pond Road.	2	9,600.14
11 Contracts completed.				\$164,751.22

REPAVING STREET CONTRACTS COMPLETED DURING 1919

Improve- ment	Location	Limits	Ward	Amount
Repave	4th St.....	Vernon to Jackson Aves.....	1	\$5,603.74
"	East Ave.....	Borden to Hunterspoint Ave.....	1	14,294.55
"	Hamilton St.....	Webster Ave. north to Vernon Ave..	1	40,755.34
"	1st Ave.....	Graham Ave to Broadway.....	1	16,621.56
"	Jackson Ave.....	Thomson Ave.to Bridge Plaza N. (C.)	1	32,845.27
		(R.R.)	1	2,745.46
"	Jackson Ave. (R.R.)	Thomson Ave. to Bridge Plaza N....	1	15,458.96
"	Jackson Ave. (R.R.)	Bridge Plaza No. to 2nd Ave.....	1	14,107.88
"	Jackson Ave.	2nd Ave. to Old Newtown Road (C.)	1	103,363.29
		(R.R.)		9,141.73
"	13th St.....	2nd to 9th Aves.....	3	38,609.80
		(R.R.)		6,322.50
"	6th St.....	1st to College Aves.....	}	50,135.21
	W. Boulevard.....	1st to College Aves.....		
	N. Boulevard.....	1st to College Aves.....		
	4th Ave.....	6th to 10 th Sts.....		
"	Rockaway Blvd....	Remsen to Eastern Aves.....		32,049.21
11 Contracts Completed at a Total Cost of				\$382,054.79

MISCELLANEOUS CONTRACTS COMPLETED DURING 1919

Repair	Sheet Asphalt Pavements, 1st and 2nd Wards.....	\$13,748.25
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PRIVATE CONTRACTS COMPLETED DURING 1919

Improvement	Location	Limits	Width	Length	Sq. Yds.
Pave Sheet Asphalt. .	110th St... .	Roanoke to Suwanee Aves. . .	30'	765'	2,550
Pave Sheet Asphalt. .	111th St... .	Liberty Ave. to 400' south... .	30'	400'	1,330
Total.....				1,165'	3,880

ASSESSMENT MAPS COMPLETED AND FORWARDED TO BOARD OF ASSESSORS
DURING 1919

Improve- ment	Street	Limits	Ward	Amount
GCF	Fresh Pond Road.....	Woodbine St. to Flushing Ave.....	2	\$17,565.06
GF	Rockaway Road.....	Sutphin Road to Baisley Ave.....	4	1,491.21
GF	40th St.....	Jackson Ave. to Forest St.....	2	4,524.32
GCF&P	Review Ave.....	Howard Ave. to Laurel Hill Blvd...	2	33,649.09
GCF	Fairview Ave.....	Stanhope St. to Greene Ave.....	2	2,386.61
GF	Jamaica Ave., S. S.....	Lefferts to Van Wyck Aves.....	4	2,368.97
GF	Jamaica Ave., N. S.....	Lefferts to Metropolitan Aves.....	4	2,847.70
Pave	80th St.....	Jamaica to 88th Aves.....	4	3,525.16
GCF	Decatur St.....	Cypress to Myrtle Aves.....	2	7,958.34
GCF	Tesla Place.....	Cooper to Central Aves.....	2	3,205.14
GF	Bleecker St.....	Onderdonk Ave. to 100' So.....	2	294.68
GF	Nott Ave.....	Van Alst to East Aves.....	1	913.87
GF	Himrod St.....	Seneca to Cypress Aves.....	2	136.78
GF	46th St.....	Astoria to Jackson Aves.....	2	5,584.93
GF	Murray St.....	Sanford to Madison Aves.....	3	1,733.28
GF	Hughes St., etc.....	Anthon Ave. to 90' W., etc.....	2	419.15
F	80th St.....	Jamaica Ave. to 86th Road.....	4	79.03
F	Hampton St.....	60' N. W.-420' N.W. Kingsland Ave.	2	464.75
GCFP	Crescent St.....	13th to So. Jane Sts.....	1	7,945.56
GCF	Crescent, Hunter, Nott Ave.....	Nott Ave. to 13th St., Harris to Nott Aves., Jackson to Hunter Aves...	1	4,993.96
G	School St.....	Borden to Thomson Aves.....	1	7,612.84
GCF	101st Ave.....	Borough Line to 83rd St.....	4	19,283.99
CP	Forest Ave.....	Woodbine St. to Putnam Ave.....	2	10,099.96
F	Skillman Ave.....	Dickson St. to 75 W. of Van Pelt Av.	1	10,086.68
GCF	Lincoln Ave.....	Greenpoint Ave. to Queens Blvd...	2	4,225.08
CP	Wilbur Ave.....	William to Sunswick Sts.....	1	12,322.14
CP	Abingdon Road.....	Lefferts Ave. to Brevoort St.....	4	4,194.35
CP	Madison Ave.....	10' E. of Doubleday St. to Fremont.	2	9,127.30
GCFP	Wilton Ave.....	Glasser St. to Cooper Ave.....	2	18,752.50
CP	14th Ave.....	Grand to Jamaica Aves.....	1	13,694.35
GF	Kissena Blvd.....	Sanford to Franklin Aves.....	3	546.65
GF	Palmetto St.....	Prospect to Fresh Pond Road.....	2	483.94
F	40th Road.....	Main to Joe Place.....	3	986.55
GCF	88th Ave.....	102nd to 104th Sts.....	4	2,160.17
GCF	124th Ave.....	Metropolitan to Jamaica Aves.....	4	8,609.42
GCF	125th St.....	Jamaica to 89th Aves.....	4	4,763.06
GF	Armand Place.....	Walter St. to 250' South.....	2	1,171.65
GCF	123rd St.....	220' N. of 85th to 89th Aves.....	4	12,916.25
GCF	87th Ave.....	80th to 85th Sts.....	4	2,267.12
GCF	85th Road.....	83rd to 91st Sts.....	4	8,074.21
GCF	87th Road.....	78th to 80th Sts.....	4	1,300.07
39 Assessment Maps.....				\$256,785.87

RECAPITULATION OF COMPLETED CONTRACTS DURING 1919

25	Contracts for regulating and grading streets, total cost.....	\$69,327.32
11	Contracts for original pavement on streets, total cost.....	164,751.22
7	Contracts for repaving streets, City area, total cost.....	334,278.26
4	Contracts for repaving streets, Railroad area, total cost.....	47,776.53
1	Contract for repairing sheet asphalt pavement.....	13,748.25
48	Contracts completed, total cost.....	629,881.58
39	Assessment maps forwarded to Board of Assessors.....	256,785.87

WORK DONE DURING 1919

42,104.50	cu. yds.	Earth Excavation.
246.40	"	Rock Excavation.
50,705.00	"	Embankment Furnished and Placed.
13,033.00	lin. ft.	New Bluestone Curb Set.
11,623.10	"	Old Bluestone Curb Reset.
52,821.20	"	Concrete Curb Set.
152.60	"	Old Concrete Curb Reset.
5,714.00	sq. ft.	New Bluestone Flag Laid.
229,398.72	"	Cement Walk Laid.
2,793.32	"	Old Bluestone Flag Relaid.
5,251.11	"	New Crosswalks Laid.
824.68	"	Old Crosswalks Relaid.
14,726.50	cu. yds.	Concrete Foundation Laid.
11,029.81	sq. yds.	Asphaltic Concrete Pavement Laid.
15.22	"	Wood Block Pavement Laid.
11,871.53	"	Asphalt Block Pavement Laid.
18,776.93	"	Improved Granite Block Pavement Laid.
99,523.81	"	Sheet Asphalt Pavement Laid.
3,836.70	"	Old Granite Block Pavement Laid.
1,305.38	"	Stone Gutters Furnished and Laid.
212.50	"	Vitrified Block Gutters Furnished and Laid.
1,350.80	"	Stone Gutters Relaid.
330.60	"	Vitrified Block Gutters Relaid.
467.00	lin. ft.	Vitrified Pipe in Place.
958.00	"	Cast Iron Pipe in Place.
4		New Catch Basins Built.
14		Catch Basins Rebuilt.
49		Catch Basins Adjusted.
2		Sewer Manholes Rebuilt.
38		Sewer Manholes Adjusted.
1		Seepage Basin Built.
206		Trees Removed.
200		Trees Furnished and Planted.
16		Trees Replanted.
6		Sign Posts Reset.
3,386	sq. yds.	Granite Block Pavement Repaired.
46,660	"	Asphaltic Concrete Pavement Resurfaced.
191,495	"	Bituminous Macadam Pavement Resurfaced.
660	"	Water Board Macadam Pavement Resurfaced.

REPAIRS DURING 1919 UNDER SUPERVISION OF ENGINEERING AND CON- STRUCTION—HIGHWAYS

PAVEMENTS OUT OF MAINTENANCE

Sheet Asphalt Repaired Outside of R.R. Area	5,280 sq. yds.	
Sheet Asphalt Repaired Inside of R.R. Area	680 "	
		5,960 sq. yds.
Sheet Asphalt Plumbers' and Corporation Openings Re- stored	451 sq. yds.	
Macadam Restored Over Water and Sewer Trenches	4,290 "	
Granite Block Restored Over Water and Sewer Trenches .	5,643 "	
Improved Granite Block Restored Over Water and Sewer Trenches	2,396 "	
Cobble Pavement Restored Over Water and Sewer Trenches	1,300 "	
		14,080 "
		20,040 sq. yds.

PAVEMENTS UNDER MAINTENANCE

Asphalt Concrete Repaired	386 sq. yds.	
Asphalt Blocks Repaired	709 "	
Wood Block Repaired	261 "	
Tarvia Repaired	3,231 "	
Sheet Asphalt Repaired	1,121 "	
		5,708 sq. yds.

PLUMBERS' AND CORPORATION OPENINGS RESTORED

Asphalt Block	64 sq. yds.	
Sheet Asphalt	5,497 "	
Asphalt Concrete	1,734 "	
Granite Block	78 "	
Wood Block	26 "	
		7,399 sq. yds.
		33,147 sq. yds.

INSPECTED FOR FINAL OR INTERMEDIATE PAYMENTS, PAVEMENTS UNDER MAINTENANCE

Granite	10,428 sq. yds.	Concrete Curb Inspected . .	47,658 lin. ft.
Sheet Asphalt	207,720 "		
Asphalt Block	73,522 "	Concrete Walk Inspected . .	259,489 sq. ft.
Asphalt Concrete	106,700 "		
Wood Block	16,300 "	Inspected Sewer Trenches .	212,900 lin. ft.
Tarvia	2,290 "		
	416,960 sq. yds.		

PAVEMENTS LAID DURING 1919

AMOUNT IN USE JANUARY 1, 1920

Kind of Pavement	NEW PAVEMENTS LAID DURING 1919		REPAVE YEAR 1919		TOTAL AMOUNT IN USE JANUARY 1, 1920	
	Miles	Sq. Yds.	Miles	Sq. Yds.	Miles	Sq. Yds.
Asphaltic Concrete.....			.65	11,021	114.38	1,247,018
Asphalt Sheet.....	.71	13,550	3.19	69,117	41.93	729,569
Asphalt Block.....	.48	8,652	.19	3,400	23.63	472,868
Wood Block.....					9.54	175,884
Brick.....					8.91	156,061
Iron Slag.....					0.22	2,200
Improved Granite Block.....			.51	5,554	17.60	285,316
Granite Block.....	.11	3,024			20.93	359,096
Belgian Block.....					2.92	54,656
Bituminous Macadam.....					63.00	732,541
Macadam.....					175.19	2,139,250
Gravel.....					1.12	11,827
	1.30	25,226	4.54	89,092	479.37	6,366,286
NOTE.—The following work done by contract within R.R. Area is not included in above table:						
Repave Improved Granite Block (R.R. Area).....					.66	5,091
NOTE.—The following work done by Departmental Labor is not included in above tables:						
Resurfacing Asphaltic Concrete.....					4.00	46,000
Resurfacing Bituminous Macadam.....					17.00	190,000
Repaving Granite Block, Wood Filler.....					.23	3,386
					21.23	239,386

DIVISION OF ENGINEERING CONSTRUCTION, SEWERS, DURING 1919

There have been constructed:

1.61 lin. ft.	10' 0" x 8' 3" Reinforced Concrete Sewer	\$80.02
405.32 "	9' 0" x 8' 3" " " "	8,952.24
80 "	8' 3" x 8' 6" Double Bbl. Reinforced Concrete Sewer.	8,560.00
705 "	8' 3" x 8' 6" Reinforced Concrete Sewer	37,365.00
84 "	8' 0" R. C. Comb. 18" Vitrified Pipe (Laid)	5,628.00
2,088 "	8' 0" Cir. R. C. Sewer, Type B.	68,904.00
513 "	8' 0" Reinforced Concrete Sewer	30,562.00
995 "	7' 6" x 8' 6" Reinforced Concrete Sewer	42,785.00
2,086 "	7' 6" Reinforced Concrete Sewer	113,808.00
486 "	7' 3" " " "	17,010.00
865 "	7' 0" Cir. R. C. Comb. 18" Vitrified Pipe, Laid.	44,763.75
218 "	7' 0" Reinforced Concrete Sewer	9,400.00
702 "	7' 0" Circular Concrete Sewer	16,270.00
865 "	7' 0" Circular Reinforced Concrete Sewer, Type B.	26,166.25
1,140 "	6' 3" Reinforced Concrete Sewer	57,000.00
1,017.46 "	5' 9" " " "	40,698.40
1,799.70 "	5' 6" " " "	59,390.10
1,638.90 "	5' 3" " " "	65,556.00
2,111 "	5' 0" " " "	45,525.00
50 "	4' 9" Circular " " "	1,000.00
624.55 "	4' 9" " Reinforced Concrete Sewer	10,021.50
954.40 "	4' 6" Reinforced Concrete Sewer	20,264.88
955 "	4' 3" " " "	16,235.00
1,520 "	4' 0" " " "	24,650.00
604 "	4' 0" Circular " " "	7,852.00
3,268.20 "	3' 9" Reinforced Concrete Sewer	42,438.60
935 "	3' 9" Plain Concrete Sewer	15,381.00
586.13 "	3' 6" " " "	9,069.37
275 "	3' 6" Circular Concrete Sewer	3,712.00
15 "	3' 6" " Reinforced Concrete Sewer	127.50
2,160.06 "	3' 3" Reinforced Concrete Sewer	22,680.63
1,300 "	3' 0" Plain Concrete Sewer	14,680.00
8 "	2' 9" Circular Concrete Sewer	40.00
251.23 "	2' 9" Plain " " "	2,479.28
168 "	2' 9" Circular " " "	1,680.00
425 "	2' 3" Plain " " "	4,250.00
0.27 "	24" Reinforced Concrete Sewer	1.35
46.44 "	24" " " " Type B.	362.23
712.75 "	24" Vitrified Pipe Sewer	6,018.50
589.54 "	22" " " " "	4,139.89
524.10 "	20" " " " "	3,400.50
127.40 "	18" " " Concrete Cradle	840.84
1,981.30 "	18" Vitrified Pipe Sewer	9,582.89
2,882 "	15" Flexible Joint Pipe	13,545.40
3,764.48 "	15" Vitrified Pipe Sewer	15,185.64
1,870 "	12" Flexible Joint Pipe	21,037.50
750.65 "	12" Vitrified Pipe Sewer, including Concrete Cradle	5,645.55
16,438.28 "	12" " " "	52,839.40
3,153.48 "	12" " " Basin Connection	5,166.94
1,947.60 "	10" " " " "	2,342.94
16,818.50 "	6" " " House Connection Drains	16,915.40
819.0 "	6" Spurs on 24" Reinforced Concrete Sewer	841.00

304	lin. ft.	6" Spurs on Vitrified Pipe Sewer	\$802.90
26	"	6" " " 24" Vitrified Pipe Sewer	122.00
35	"	6" " " 22" " " "	175.00
29	"	6" " " 20" " " "	160.50
120		6" " " 18" " " "	390.30
203		6" " " 15" " " "	426.00
982		6" " " 12" " " "	1,430.60
231	"	Risers for House Connection Drains	641.00
35	"	" " " " " including Y's.. . . .	87.50
355		Manholes	44,434.00
164		Basin Manholes	18,825.00
256		Inlets	14,767.00
15		Junction Chambers	10,500.00
3		Drop Chambers	7,500.00
3		Chambers	1,700.00
3		Basins	600.00
2		Cleaning Shafts	518.00
1		Increaser 7' 0" to 8' 0"	750.00
1,857.96	cu. yds.	Concrete, Class "A"	22,119.56
335	"	Broken Stone	1,507.50
138,973	ft. B. M.	Timber for Bracing and Sheeting	12,482.30
940,252	"	" " Foundation	8,510.60
208	lin. ft.	Piles, Placed and Driven	7,532.00
196	"	" , Pulled and Removed	2,940.00
24,125	"	Piling	4,312.53
2,688.05	cu. yds.	Rock	30,999.12
		Flat Iron Bar Screens, etc. (12 leaves)	500.00
		" " " " " (10 ")	500.00
2		Perforated Plate Screens, etc.	800.00
		Pipe Railing	200.00
1		Incinerator	300.00
24		Stop Planks	100.00
16,978	lbs.	Reinforcement Steel	1,528.02
230	cu. yds.	Backfill on 9' 0" x 8' 3" Sewer	2,185.00
268	lin. ft.	" " 9' 0" x 8' 3" "	2,546.00
1,100	"	" " 8' 3" x 8' 6" Double Bbl. Sewer	20,350.00
1,290	"	Excavation on 8' 3" x 8' 6" Double Bbl. Sewer	44,505.00
125	"	" " 9' 0" x 8' 3" " " "	1,948.75
223	cu. yds.	" " 9' 0" x 8' 3" " " "	3,476.57
1,250	lin. ft.	Concrete Invert 8' 3" x 8' 6" Double Bbl. Sewer	33,750.00
1,220	"	Walls and Arch on 8' 3" x 8' 6" Double Bbl. Sewer	32,940.00
1,850	"	40' 0" Open Drain, incl. Excavation, etc., (Genesee St.)	66,600.00
100%		Underpinning L. I. R. R. Columns (Genesee St.)	3,000.00
		R.R. Basin at Junction and So. R. R. Av.	100.00
		Reconstruction on 43d St. Outlet	35,328.06
100%		Concrete Junction Chamber, Alstyne and Way Aves.	2,115.30
100%		Excavation Junction Chamber, Alstyne and Way Aves.	884.70
12,191	cu. yds.	Fill for Sewer Embankment	3,710.36
			<hr/>
			\$1,504,398.66

There were built:

5.220 miles of Concrete Sewer.
4.713 " " Pipe Sewer.
168 Receiving Basins.

CONTRACTS COMPLETED

	Cost
Fixed screens in 43rd St., screen chamber, together with incinerator and all new work as shown on plan. Contract No. 2.....	\$5,900.00
NO. RAILROAD Ave. from 51st St. to Louona Ave.	
SO. RAILROAD AVE. from 51st St. to Louona Ave.,	
ALBURTIS AVE. from Kingsland Ave. to Lurting St., and in	
WAY AVE. from Kingsland Ave. to Lurting St.....	30,701.55
Receiving basin and appurtenances on east corner of FOREST AVE. AND SUMMERFIELD ST.....	320.00
SIBOUTSEN ST. from 42nd to 40th Sts.....	1,462.58
Receiving basin and appurtenances on northeast corner of LOTUS AND COOPER AVES.....	342.00
ROOSEVELT AVE., S. S., from Alburtis to Louona Aves.....	942.84
Receiving basin on south side of COOPER AVE., opposite Beta Place.....	90.00
Receiving basin on east corner of ELY AVE. AND TEMPLE ST.....	314.00
BROAD ST. from Hull to Clinton Aves.,	
CLINTON AVE. from Broad to Mueller Sts.,	
REMSSEN PLACE from Clinton to Perry Aves.,	
PERRY AVE. from Maurice to Mueller Sts.,	
MASPETH AVE. from Clermont to Willow Aves., and in	
CLERMONT AVE. from Maspeth to Hull Aves.....	69,627.13
WOOL ST. from Grand to Weimar Sts.,	
KOERNER ST. from Weimar St. to abt. 225' E. of Wool St.,	
MANHEIM ST. from Weimar St. to abt. 385' E. of Wool St.,	
WEIMAR ST. from abt. 175' W. of Wool St. to abt. 385' W.....	14,940.19
GRAND ST. from Queens Blvd. to L. I. R. R.....	21,178.00
SYOSSET ST. from Woodhaven Ave. to 90' W. of Bigelow Ave.....	
BIGELOW AVE. from Syosset St. to Jamaica Ave.....	3,323.21
TOMPKINS PLACE from Central to Edsall Aves.....	2,834.49
MONTEVERDE AVE. from Grand St. to Hull Ave.....	1,952.48
Reconstruction of sewer in DAVIS ST. from Pearson St. to Hunterspoint Ave.	6,050.73
TROWBRIDGE St. from abt. 25' W. of Van Alst Ave. to abt. 125' 0" W. of Van Alst Ave.....	406.25
NARCISSUS ST. (SINCLAIR AVE.) from Robinson to Bowne Aves.....	779.00
LURTING ST. from 51st St. to Way Ave.,	
WAY AV. from Lurting St. to Alstyne Ave.,	
ALSTYNE AVE. from Way to Junction Aves.,	
JUNCTION AVE. from Alstyne Ave. to Hunt St.....	197,428.31
IDAHO (21st) ST. from Queens to Laburnum Aves.....	1,819.25
A timber deck bridge at site of Flushing Incinerator, 31st (Uhlund) Ave. between 130th and 131st Sts.....	2,759.25
Sewer and appurtenances in HOBSON AVE. from Newtown Creek to Halle Ave. and combined sewer in HOBSON AVE. from Halle to Jones Aves., in JONES AVE. from Clifton Ave. to Laurel Hill Blvd., in LAUREL HILL BLVD. from Jones to Borden Aves., in MONTGOMERY AVE. from Columbia to Jones Aves., in CONGRESS AVE. from Laurel Hill Blvd. to Montgomery Ave., in TOWNSEND AVE. from Laurel Hill Blvd. to Hobson Ave., in WATERS AVE. from Hobson to Clifton Aves., in JOY AVE. from Montgomery to Clifton Aves., in COLUMBINE AVE. from Hobson to Clifton Aves., and in CLIFTON AVE. from Waters to Columbine Aves., with temporary connection to sewer in Columbine Ave.....	192,326.70
91ST (KAISER) ST. from Jamaica Ave. to Ashland St.,	
WILLARD AVE. from Jamaica Ave. to Ashland St.,	

OAKLAND ST. from Kaiser St. to Manor Ave.,	
BRANDON AVE. from Woodhaven to Willard Aves.,	
ELMWOOD ST. from Kaiser St. to Willard Ave.	
FERRIS ST. from Kaiser St. to Willard Ave.,	
AVONDALE ST. from Kaiser St. to Willard Ave.,	
ASHLAND ST. from Woodhaven to Willard Aves.,	
MANOR AVE. from Ashland St. to abt. 175' 0" N. of Ashland St.....	\$35,505.30
REMSEN PLACE from Grand St. to Perry Ave.....	635.80
RALPH ST. from Fresh Pond Road to Traffic St.,	
TRAFFIC ST. from Ralph to Grove Sts.....	10,878.95
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	\$602,518.01

ASSESSMENT MAPS AND LISTS COMPLETED AND FORWARDED TO BOARD OF
ASSESSORS

Total Cost

COLLINS AVE. from Mt. Olivet Ave. to Adriatic St.,	
ADRIATIC ST. from Collins Ave. to Fresh Pond Road,	
FRESH POND ROAD from Mt. Olivet Ave. to Woodbine St.....	\$175,190.47
RUST ST. from Grand to James Sts.,	
JAMES ST. from Rust St. to Flushing Ave.	
FLUSHING AVE. from James St., to Collins Ave.,	
COLLINS AVE. from Flushing to Mt. Olivet Aves.....	57,140.34
BROAD ST. from Maspeth Ave. to Grand St.	
VAN COTT AVE. from Maspeth Ave. to Grand St.,	
HIGH ST. from Maspeth Ave. to Charles St.,	
HILL ST. from Rust St. to Clermont Ave.,	
HERBERT ST. from Rust to High Sts.	
CHARLES ST. from Rust to Grand Sts.,	
BIELBY ST. from Rust St. to Van Cott Ave.....	56,788.56
MASPETH AVE. from Rust St. to Clermont Ave.,	
CLERMONT AVE. from Maspeth Ave. to Grand St.....	25,291.76
51ST ST. from bulkhead line to Lurting (Willow) St.....	1,322,165.36
HULL AVE. from Maurice to Willow Aves.,	
WILLOW AVE. from Jay Ave. to Grand St.,	
HULL AVE. from Willow Ave. to Hamilton Place,	
HAMILTON PLACE from Hull Ave. to Grand St.,	
GRAND ST. from Hamilton Place to Monteverde Ave.....	88,063.25
WISNER PLACE from Maure Ave. to Atfield Place.....	2,233.06
FULTON ST. from Birch St. to Lefferts Ave.,	
LEFFERTS AVE. from Fulton St. to crown about 200' S. of Fulton St....	3,391.27
HONEYWELL ST. from Nelson (Nott) to Hunterspoint Aves.....	5,850.15
TROY ST. from Jamaica to Metropolitan Aves.,	
COTTAGE ST. from Jamaica to Metropolitan Aves.....	5,299.23
FULTON ST. from Freedom to Herald Aves.,	
SHERRY ST. from about 350' W. of Freedom to Herald Aves.,	
FENHURST PLACE from Sherry St. to Herald Ave.,	
OXFORD AVE. from Fulton St. to Atlantic Ave.....	24,367.84
JUNCTION AVE. from Hayes to Jackson Aves.,	
39TH ST. from Hayes to Jackson Aves.,	
40TH ST. from Hayes to Jackson Aves.,	
41ST ST. from crown abt. 200' N. of Hayes to Jackson Aves.,	
JACKSON AVE., both sides, from Junction Ave. to 43rd St.....	36,372.22
HAYES AVE. from 40th St. to Junction Ave.....	2,586.78

Temporary dry weather flow sewer in the line of 43RD ST. from pierhead line to bulkhead line; sewer in 43RD ST. from bulkhead line to Flushing Bay to Ditmars Ave., a temporary grit and screening chamber in 43RD ST. and sewer in DITMARS AVE. (BAY SHORE TERRACE) from 43rd to 51st Sts., (Contract No. 2).....	\$6,437.61
WOODHAVEN AVE. from Fulton to Ashland Sts.,	
BRANDON AVE. from Woodhaven to Ocean View Aves.,	
JAMAICA AVE. from Gherardi to Vanderveer Aves.,	
MANOR AVE. from Jamaica Ave. to Ashland St.....	72,483.19
WOODHAVEN AVE. from Ashland St. to about 1,400' N. of Ashland St....	8,428.40
UNION HALL ST. from South to Cumberland Sts.....	5,230.34
MATTHEW PLACE from Forbes to Dunsing Sts.,	
DUNSING ST. from Matthew Place to Marston Ave.,	
MARSTON AVE. from Dunsing to Beekman Sts.,	
BEEKMAN ST. from Marston to Jackson Aves.,	
JACKSON AVE. from Beekman to Murray Sts., and in	
ASPINWALL ST. from Jackson Ave. to State St.....	52,747.09
IDAHO (21ST) ST., west side, from Queens to Franconia Aves.,	
JOSLIN (22D) ST. from Queens to Franconia Aves.,	
KENDALL PLACE (23D ST). from Queens to Franconia Aves.....	13,411.67
72D AVE. from 135th to 250' E. of 147th St.....	26,221.40
SIBOUTSEN ST. from 42d to 40th Sts.....	1,811.50
NO. RAILROAD AVE. from 51st St. to Louona Ave.,	
SO. RAILROAD AVE. from 51st St. to Louona Ave.,	
ALBURTIS AVE. from Kingsland Ave. to Lurting St.,	
WAY AVE. from Kingsland Ave. to Lurting St.	33,263.17
ALBURTIS AVE. from Lurting St. to Corona Ave.,	
CORONA AVE. from Way Ave. to 51st St.,	
BARKINS ST. from Corona to Alstyne Aves.	39,595.60
ROOSEVELT AVE. from Alburtis Ave. to 51st St.,	
GUNTHER ST. from Alburtis Ave. to 51st St.,	
HAVEMEYER ST. from Alburtis Ave. to 51st St.....	12,908.64
ROOSEVELT AVE., S. S., from Alburtis to Louona Aves.....	1,223.49
NO. VILLA ST. from Ridgewood to Jamaica Aves.,	
NO. COCHRAN AVE. from Ridgewood to Jamaica Aves.,	
NO. CURTIS AVE. from Ridgewood to Jamaica Aves.....	10,368.06
WOOL ST. from Grand to Weimar Sts.,	
KOERNER ST. from Weimar St. to about 225' E. of Wool St.,	
MANHEIM ST. from Weimar St. to about 385' E. of Wool St.,	
WEIMAR ST. from about 175' W. of Wool St. to about 385' E. of Wool St..	16,276.68
BROAD ST. from Hull to Clinton Aves.,	
CLINTON AVE. from Broad to Mueller Sts.,	
REMSEN PLACE from Clinton to Perry Aves.,	
PERRY AVE. from Maurice Ave. to Mueller St.,	
MASPETH AVE. from Clermont to Willow Aves.,	
CLERMONT AVE. from Maspeth to Hull Aves.....	74,773.95
GRAND ST. from Queens Blvd. to L. I. R. R.....	23,843.53
Receiving basin on east corner of FOREST AVE. and SUMMERFIELD ST.	441.51
Receiving basin on south side of COOPER AVE., opposite BETA PLACE...	207.91
Receiving basin on N. E. corner of LOTUS and COOPER AVES.....	460.48
Receiving basin on east corner of ELY AVE. and TEMPLE ST.....	395.55
Receiving basin on east corner of PARK PLACE and PLEASURE AVE....	393.87
Receiving basin on N. E. corner of COOPER AVE. and EPSILON PLACE.	389.43
Inlet basins on BEACH 117TH ST. (SIXTH AVE.) on S. E. and S. W. corners of Rockaway Beach Boulevard and N. W. and S. W. corners of Newport Ave.....	2,082.71

Park basins on N. E., S. E. and S. W. corners of BEACH 118TH ST. (SEVENTH AVE.) and Rockaway Beach Boulevard.....	\$645.03
GRAND ST. from Willow Ave. to Columbia Place.....	
COLUMBIA PLACE from Grand St. to Brown Place.....	22,010.24
TOMPKINS PLACE from Central to Edsall Aves.....	3,549.09
SYOSSET ST. from Woodhaven Ave. to 90' W. of Bigelow Ave.....	
BIGELOW AVE. from Syosset St. to Jamaica Ave.....	3,710.11
LURTING ST. from 51st St. to Way Ave.,	
WAY AVE. from Lurting St. to Alstyne Ave.,	
ALSTYNE AVE. from Way to Junction Aves.,	
JUNCTION AVE. from Alstyne Ave. to Hunt St.....	216,407.45
TROWBRIDGE ST. from about 25' W. of Van Alst Ave. to about 125' W. of Van Alst Ave.....	553.36
IDAHO ST. from Queens to Laburnum Aves.....	2,284.23
NARCISSUS ST. (SINCLAIR ST.) from Robinson to Bowne Aves.....	1,081.13
MONTEVERDE AVE. from Grand St. to Hull Ave.....	2,483.48
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	\$2,460,852.19

IMPROVEMENTS FOR WHICH PRELIMINARY AUTHORIZATION WAS GRANTED

	Estimated Cost
BEECKMAN (14TH) ST. from State St. to Mitchell Ave.....	\$3,300.00
DIAMOND ST. from Atlantic Ave. to Fulton St.....	2,500.00
DEPOT LANE from Joslin (22d) St. to Norwood (26th) St.,	
NORWOOD (26TH) ST. from Depot Lane to Crocheron Ave.....	10,000.00
NARCISSUS ST. (SINCLAIR AVE.) from Robinson to Bowne Aves.....	1,100.00
WILSON AVE from 15th to 16th Aves.,	
16TH AVE. from Wilson to Vanderventer Aves.....	8,000.00
RUST ST. from James St. to Flushing Ave.,	
FLUSHING AVE. from Rust to James Sts.,	
HEBBARD AVE. from Flushing to Collins Aves.,	
MT. OLIVET AVE. from Flushing to Collins Aves.,	
BROAD ST. from Grand St. to Mt. Olivet Ave.....	22,500.00
ASHLAND ST. from Brevoort St. to No. Curtis Ave.,	
NO. CURTIS AVE. from Ashland St. to Metropolitan Ave.....	8,000.00
HERBERT ST. from Van Cott Ave. to about 105' E. of High St.....	1,300.00
IDAHO (21ST) ST. from Queens to Laburnum Aves.....	3,600.00
REMSEN PLACE from Grand St. to Perry Ave.....	1,100.00
ORMOND (27TH) ST. from Crocheron Ave. to the crown about 350' N. of Crocheron Ave.,	
NORWOOD PLACE (26TH ST.) from Crocheron Ave. to State St.,	
MILLIARD (25TH) ST. from Crocheron Ave. to State St.,	
LAWSON (24TH) ST. from Crocheron Ave. to State St.,	
KENDALL (23RD) ST. from State St. to 730' N.,	
JOSLIN (22ND) ST. from Jackson to Mitchell Aves.,	
INKERMAN (21ST) ST. from State St. to Mitchell Ave.,	
HOOGLAND (20TH) ST. from Jackson to Mitchell Aves.,	
GRENNEILL (19TH) ST. from Jackson to Mitchell Aves.,	
FORBES (18TH) ST. from State St. to Mitchell Ave.,	
EAGLES (17TH) ST. from Jackson to Mitchell Aves.,	
DUNSING (16TH) ST. from Mitchell Ave. to about 370' S. of Mitchell Ave.,	
CLARENCE (15TH) ST. from Mitchell Ave. to about 300' S. of Mitchell Ave.,	
JACKSON AVE. from Joslin (22d) St. to Forbes (18th) St.,	

STATE ST. from Norwood (26th) St. to Dunsing (16th) St.,
 MITCHELL AVE. from Inkerman (21st) St. to Beeckman (14th) St.,
 CROCHERON AVE. from Joslin (22d) St. to Ormond (27th) St. \$161,400.00
 QUEENS BLVD., S. S., from Van Dam to Honeywell Sts., across Queens

Blvd. at Honeywell St. from south to north sides.,
 QUEENS BLVD., N. S., from Honeywell to Buckley Sts.,
 BUCKLEY ST. from Queens Blvd., N. S., to Skillman Ave.,
 SKILLMAN AVE. from Buckley to Lowery Sts.,
 HULST ST. from Skillman to Foster Aves.,
 VAN PELT ST. from Skillman to Foster Aves.,
 HAROLD AVE. from Skillman Ave. to about 250' S. of Skillman Ave.,
 BRAGAW ST. from Skillman to Foster Aves.,
 LOWERY ST. from Skillman to Foster Aves. 62,700.00
 MYMAUD PLACE from Fresh Pond Road to Mt. Olivet Ave. 6,000.00
 BANKS AVE. from Ditmars to Astoria Aves.,
 BUEL PLACE from Banks Ave. to the crown about 250' S. of Banks Ave. 6,800.00
 LYON AVE. from Ditmars Ave. to Gillmore St.,
 BUTLER ST. from Lyon to Banks Aves.,
 CURTIS ST. from Lyon to Banks Aves.,
 ERICSSON ST. from Lyon to Banks Aves.,
 GILLMORE ST. from Lyon to Astoria Aves. 20,000.00
 OXFORD AVE. from Jamaica to Brandon Aves. 3,000.00
 WOODBINE ST. from Forest to Prospect Aves. 2,900.00
 ALSTYNE AVE. from Junction Ave. to Card Place.,
 LURTING ST. from Junction Ave. to 600' W.,
 NO. RAILROAD AVE. from Junction Ave. to 600' W.,
 HUNT ST. from Luydig Place to Van Dine St.,
 JUNCTION AVE. from Hunt St. to Roosevelt Ave. 29,000.00
 Temporary sewer in ANABLE AVE. from Jackson Ave. to 275' S. of Jackson Ave. 1,400.00
 STOCKHOLM ST. from Seneca to Onderdonk Aves. 1,600.00
 GREENPOINT AVE. from Queens Blvd. to Hancock St. 6,700.00
 JAY AVE. from Willow Ave. to Mueller St.,
 HULL AVE. from Hamilton Ave. to Mueller St.,
 BURROUGH AVE. from Hull to Jay Aves. 30,100.00
 CASCO ST. from Forest Parkway to Yarmouth St. 2,900.00
 BIRCH ST. from Jamaica Ave. to about 230' S. of Jamaica Ave. 1,100.00
 MERRIT ST. from 51st St. to Way Ave. 7,200.00
 FLUSHING AVE. from Collins to Clermont Aves.,
 CLERMONT AVE. from Flushing to Hemlock Place. 14,600.00
 CORONA AVE. from Alstyne to Junction Aves.,
 GERRY AVE. from Junction Ave. to Toledo St.,
 JUNCTION AVE. from Corona to Maurice Aves.,

Low level sewer in:

MAURICE AVE. from Junction Ave. to Broadway;

High level sewer in:

MAURICE AVE. from Junction Ave. to Toledo St.;

And a sewer in:

BROADWAY from Maurice Ave. to St. James Place, with temporary connection to existing sewer in Broadway at St. James Place 294,000.00

Temporary sanitary sewer in 87TH AVE. (PIERSON ST.) from Queens Blvd. to 143rd St. (Jaffrey Ave.) 3,600.00

CORONA AVE. from Alstyne Ave. to Casper Place and from Cobbs Place to Louona Ave.,

MERRIT PLACE from Corona Ave. to Junction Ave. 15,900.00

COX PLACE from Grand St. to Flushing Ave. 3,900.00

20TH ST. (ARLINGTON AVE.) from Woodside Ave. to Broadway with temporary connection to existing sewer in Woodside Ave.....	\$4,200.00
HERALD AVE. from Beaufort Ave. to about 315' S. of Beaufort Ave.....	2,100.00
HAYDOCK (20TH) ST. from Queens to Franconia Aves.,	
FRANCONIA AVE. from Haydock St. to Idaho (21st) St.....	6,200.00
PIERCE AVE. from 5th to 6th Aves.....	1,000.00
LAUREL HILL AVE. from Towns Place to about 300' N. of Towns Place..	3,500.00
15TH AVE. from Grand to Arcadia Aves.,	
ARCADIA AVE. from 14th Ave. to about 150' South from 16th Ave.....	9,200.00
JUNCTION AVE. from Alstyne to Corona Aves.....	4,000.00
HALLETT ST. from Ditmars to Wolcott Aves.....	4,700.00
LAWSON PLACE (24TH ST.) from Queens Ave. to crown about 199' No. of Franconia Ave.....	5,600.00
CUSTER (15TH) ST. from about 25' N. of Beech Ave. to Beech Ave.,	
BEECH AVE. from Custer to Murray Sts.	1,100.00
ASHLAND ST. from Waverly Place to No. Curtis Ave.....	1,400.00
FLUSHING AVE. from Rust to Caspian Sts.....	4,700.00
16TH AVE. from Grand to Vandeventer Aves.....	2,400.00
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	\$786,300.00

IMPROVEMENTS FOR WHICH FINAL AUTHORIZATION WAS GRANTED

	Amount
ATLANTIC AVE., N. S., from Rockaway Blvd. to Bigelow Ave. (92nd St.),	
YARMOUTH (85TH) ST. from Atlantic Ave. to Syosset (88th) St.	\$82,300.00
Temporary open drain in GENESEE ST. from So. Conduit to Wortman Aves.....	135,400.00
TROWBRIDGE ST. from about 25' W. of Van Alst Ave. to about 125' W. of Van Alst Ave.....	600.00
TOMPKINS PLACE from Central to Edsall Aves.....	4,000.00
RALPH ST. from Fresh Pond Road to Traffic St.,	
TRAFFIC ST. from Ralph to Grove Sts.....	16,800.00
GRAND ST. from Willow Ave. to Columbia Place,	
COLUMBIA PLACE from Grand St. to Brown Place.....	19,800.00
SYOSSET ST. from Woodhaven Ave. to 90' W. of Bigelow Ave.,	
BIGELOW AVE. from Syosset St. to Jamaica Ave.....	5,900.00
KAISER ST. from Jamaica Ave. to Ashland St.,	
WILLARD AVE. from Jamaica Ave. to Ashland St.,	
OAKLAND ST. from Kaiser St. to Manor Ave.,	
BRANDON AVE. from Woodhaven to Willard Aves.,	
ELMWOOD ST. from Kaiser St. to Willard Ave.,	
FERRISS ST. from Kaiser St. to Willard Ave.,	
AVONDALE ST. from Kaiser St. to Willard Ave.,	
ASHLAND ST. from Woodhaven to Willard Aves.,	
MANOR AVE. from Ashland St. to about 175' N. of Ashland St.	61,700.00
Sanitary and storm water sewer in 32nd (MYRTLE) AVE. from Union St. (Whitestone Ave.) to Lawrence Ave.,	
LAWRENCE AVE. from 32nd (Myrtle) Ave. to Willets Point Blvd.; storm water sewer and temporary screening plant in WILLETS POINT BLVD. from Lawrence Ave. to Flushing River; and a cut-off and overflow chamber in LINDEN ST. at 32nd (Myrtle) Ave., together with so much of pumping station at Linden St. and 32d Ave., necessary to provide for pumping a flow of 576,000 gallons per day, Third Ward.....	722,600.00

Automatic electric pumping station at GENESEE ST. and NO. CONDUIT AVE., temporary pressure pipe in NO. CONDUIT AVE. from Genesee St. to Sutter Ave. and in SUTTER AVE. from No. Conduit Ave. to Elderts Lane, and temporary drain in SUTTER AVE. from Elderts Lane to Railroad Ave., Brooklyn and Queens.....	\$119,900.00
MONTEVERDE AVE. from Grand St. to Hull Ave.....	2,200.00
HOWARD ST. from Forest Parkway to 275' east.....	1,900.00
DIAMOND ST. from Atlantic Ave. to Fulton St.....	3,800.00
NARCISSUS ST. (SINCLAIR AVE.) from Robinson to Bowne Aves.....	1,100.00
WILSON AVE. from 15th to 16th Aves.,	
16TH AVE. from Wilson to Vanderventer Aves.....	7,400.00
HERBERT ST. from Van Cott Ave. to about 105' E. of High St.....	1,300.00
IDAHO (21ST) ST. from Queens to Laburnum Aves.....	2,900.00
REMSEN PLACE from Grand St. to Perry Ave.....	900.00
JUNCTION AVE. from Alstyn to Corona Aves.....	4,000.00
LINDEN ST. from 32d (Myrtle) Ave. to 35th Ave. (State St.),	
35TH AVE. (STATE ST.) from Linden to Prince Sts.,	
PRINCE ST. from 35th Ave. (State St.) to 36th Ave. (Warren) St. and trunk (low level) sewers in:	
PRINCE ST. from 36th (Warren St.) to 37th Aves. (Washington St.),	
37TH AVE. (WASHINGTON ST.) from Prince to Lawrence Sts.,	
LAWRENCE ST. from 37th (Washington St.) to 40th Aves. (Amity St.), and lateral (high level) sewers in:	
PRINCE ST. from 35th Ave. (Warren St.) to about 35' south,	
37TH AVE. (WASHINGTON ST.) from Prince St. to about 380' east from Lawrence to Lawrence St.,	
LAWRENCE ST. from 37th (Washington St.) to 40th Aves. (Amity St.)...	682,100.00
ASHLAND ST. from Brevoort St. to No. Curtis Ave.,	
NO. CURTIS AVE. from Ashland St. to Metropolitan Ave.....	6,800.00
BEECKMAN (14TH) ST. from State St. to Mitchell Ave.....	4,300.00
QUEENS BLVD., S. S., from Van Dam to Honeywell Sts., across Queens Blvd. at Honeywell St. from S. S. to N. S., and in	
QUEENS BLVD., N. S., from Honeywell to Buckley Sts.,	
BUCKLEY ST. from Queens Blvd., N. S., to Skillman Ave.,	
SKILLMAN AVE. from Buckley to Lowery Sts.,	
HULST ST. from Skillman to Foster Aves.,	
VAN PELT ST. from Skillman to Foster Aves.,	
HAROLD AVE. from Skillman Ave. to about 250' S. of Skillman Ave.,	
BRAGAW ST. from Skillman to Foster Aves.,	
LOWERY ST. from Skillman to Foster Aves.....	74,100.00
MYMAUD PLACE from Fresh Pond Road to Mt. Olivet Ave.....	5,900.00
BANKS AVE. from Ditmars to Astoria Aves.,	
BUELL PLACE from Banks Ave. to the crown about 250' S. of Banks Ave.	9,300.00
OXFORD AVE. from Jamaica to Brandon Aves.....	3,500.00
WOODBINE ST. from Forest to Prospect Aves.....	2,800.00
Temporary sewer in ANABLE AVE., from Jackson Ave. to 275' S. of Jackson Ave.....	2,100.00
STOCKHOLM ST. from Seneca to Onderdonk Aves.....	1,300.00
GREENPOINT AVE. from Queens Blvd. to Hancock St.....	9,800.00
CASCO ST. from Forest Parkway to Yarmouth St.....	3,200.00
BIRCH ST. from Jamaica Ave. to about 230' S. of Jamaica Ave.....	1,200.00
MERRIT ST. from 51st St. to Way Ave.....	7,300.00
Temporary sanitary sewer in 87TH AVE. (PIERSON ST.) from Queens Blvd. to 143d St. (Jaffrey Ave.).....	3,900.00
COX PLACE from Grand St. to Flushing Ave.....	6,000.00

20TH ST. (ARLINGTON AVE.) from Woodside Ave. to Broadway with temporary connection to existing sewer in Woodside Ave.....	\$3,800.00
HERALD AVE., from Beaufort Ave. to about 315' S. of Beaufort Ave.	2,300.00
HAYDOCK (20TH) ST. from Queens to Franconia Aves.,	
FRANCONIA AVE. from Haydock to Idaho (21st) St.....	6,700.00
PIERCE AVE. from 5th to 6th Aves.....	1,100.00
LAUREL HILL AVE. from Towns Place to about 300' N. of Towns Place..	2,600.00
15TH AVE. from Grand to Arcadia Aves.,	
ARCADIA AVE. from 14th Ave. to about 150' south from 16th Ave.....	11,400.00
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	\$2,045,900.00

CONTRACTS AWARDED

Contract Price

80TH (HUDSON) ST. from Liberty to Atlantic Aves., N. S.	
ATLANTIC AVE., N. S., from 80th to 75th Sts. (Lott Ave.),	
76TH ST. from Atlantic Ave., N. S., to 93d Ave. (Pratt Place),	
93D AVE. from 76th St. to Elderts Lane,	
ELDERTS LANE from 93d to Jamaica Aves.,	
78TH ST. (SNEDEKER AVE.) from Atlantic Ave., N. S., to Jamaica Ave., and in	
JAMAICA AVE. from Elderts Lane to crown 200' E. of Elderts Lane.....	\$209,068.10
HOBSON AVE. from Newtown Creek to Halle Ave. and combined sewer in	
HOBSON AVE. from Halle to Jones Aves.,	
JONES AVE. from Clifton Ave. to Laurel Hill Blvd.,	
LAUREL HILL BLVD. from Jones to Borden Aves.,	
MONTGOMERY AVE. from Columbine to Jones Aves.,	
CONGRESS AVE. from Laurel Hill Boulevard to Montgomery Ave.,	
TOWNSEND AVE., from Laurel Hill Blvd. to Hobson Ave.,	
WATERS AVE. from Hobson to Clifton Aves.,	
JOY AVE. from Montgomery to Clifton Aves.,	
COLUMBINE AVE. from Hobson to Clifton Aves.,	
CLIFTON AVE. from Waters to Columbine Aves., with temporary connection to sewer in Columbine Ave.....	\$181,895.95
WOODLAND AVE. from Huntington St. to Beaufort Ave.,	
BEAUFORT AVE. from Boyd to Hatch Aves.,	
WALKER AVE. from Beaufort to Woodhaven Aves.,	
WOODHAVEN AVE. from Walker Ave. to Fulton St.....	188,800.83
ROOSEVELT AVE., S. S., from Alburtis to Louona Aves.....	950.06
GRAND ST. from Willow Ave. to Columbia Place,	
COLUMBIA PLACE from Grand St. to Brown Place.....	18,029.50
RALPH ST. from Fresh Pond Road to Traffic St.,	
TRAFFIC ST. from Ralph to Grove Sts.....	10,869.50
TOMPKINS PLACE from Central to Edsall Aves.....	2,496.30
91ST (KAISER) ST. from Jamaica Ave. to Ashland St.,	
WILLARD AVE. from Jamaica Ave. to Ashland St.,	
OAKLAND ST. from Kaiser St. to Manor Ave.,	
BRANDON AVE. from Woodhaven to Willard Aves.,	
ELMWOOD ST. from Kaiser St. to Willard Ave.,	
FERRISS ST. from Kaiser St. to Willard Ave.,	
AVONDALE ST. from Kaiser St. to Willard Ave.,	
ASHLAND ST. from Woodhaven to Willard Aves.,	
MANOR AVE. from Ashland St. to about 175' N. of Ashland St.....	34,263.50
SYOSSET ST. from Woodhaven Ave. to 90' W. of Bigelow Ave.,	
BIGELOW AVE. from Syosset St. to Jamaica Ave.....	3,379.30
ATLANTIC AVE., N. S., from Rockaway Blvd. to Bigelow Ave.,	

YARMOUTH ST. from Atlantic Ave. to Syosset St.....	\$82,870.55
Temporary open drain in GENESEE ST. from So. Conduit to Wortman Aves.....	91,829.05
TROWBRIDGE ST. from about 25' W. of Van Alst Ave. to about 125' W. of Van Alst Ave.....	470.01
Reconstruction of sewer in DAVIS ST. from Pearson St. to Hunterspoint Ave.	6,197.67
IDAHO (21ST) ST. from Queens to Laburnum Aves.....	1,871.61
MONTEVERDE AVE. from Grand St. to Hull Ave.....	1,692.01
NARCISSUS ST. (SINCLAIR AVE.) from Robinson to Bowne Aves.....	796.50
Sanitary and storm water sewer in 32D (MYRTLE) AVE. from Union St. (Whitestone Ave.) to Lawrence Ave.,	
LAWRENCE AVE. from 32d (Myrtle) Ave. to Willets Point Blvd.; a storm water sewer and temporary screening plant in WILLETS POINT BLVD. from Lawrence Ave. to Flushing River; and cut-off and overflow chamber in LINDEN ST. at 32d (Myrtle) Ave., together with pumping station at Linden St. and 32d Ave., as may be necessary to provide for pumping a flow at 576,000 gallons per day.....	659,218.30
WILSON AVE. from 15th to 16th Aves.,	
16TH AVE. from Wilson to Vanderventer Aves.....	5,664.01
HERBERT ST. from Van Cott Ave. to about 105' E. of High St.....	950.51
REMSEN PLACE from Grand St. to Perry Ave.....	555.91
DIAMOND ST., from Atlantic Ave., N. S., to Fulton St.....	2,734.81
HOWARD ST. from Forest Parkway to 275' east.....	1,386.51
Timber deck bridge at site of Flushing Incinerator 31st (Uhland) Ave. be- tween 130th and 131st Sts., Flushing.....	2,979.92
JUNCTION AVE. from Alstyne to Corona Aves.....	2,992.91
ASHLAND ST. from Brevoort St. to No. Curtis Ave.,	
NO. CURTIS AVE. from Ashland St. to Metropolitan Ave.....	5,491.51
Temporary sewer in ANABLE AVE. from Jackson Ave. to 275' S. of Jack- son Ave.....	1,669.50
15TH AVE. from Grand to Arcadia Aves.,	
ARCADIA AVE. from 14th Ave. to about 150' south from 16th Ave.....	9,545.30
QUEENS BLVD., S. S., from Van Dam to Honeywell Sts., across	
QUEENS BLVD. at Honeywell St. from south to north sides,	
QUEENS BLVD., N. S., from Honeywell to Buckley Sts.,	
BUCKLEY ST. from Queens Blvd., N. S., to Skillman Ave.,	
SKILLMAN AVE. from Buckley to Lowery Sts.,	
HULST ST. from Skillman to Foster Aves.,	
VAN PELT ST. from Skillman to Foster Aves.,	
HAROLD AVE. from Skillman Ave. to about 250' S. of Skillman Ave.,	
BRAGAW ST. from Skillman to Foster Aves.,	
LOWERY ST. from Skillman to Foster Aves.....	69,232.00
MYMAUD PLACE from Fresh Pond Road to Mt. Olivet Ave.....	4,590.01
WOODBINE ST. from Forest to Prospect Aves.....	2,212.11
STOCKHOLM ST. from Seneca to Onderdonk Aves.....	983.06
LINDEN ST. from 32d (Myrtle) to 35th Aves. (State St.).....	
35TH AVE. (STATE ST.) from Linden to Prince Sts.,	
PRINCE ST. from 35th to 36th Aves. (Warren St.); and trunk (low level) sewers in:	
PRINCE ST. from 36th to 37th Aves. (Washington St.),	
37TH AVE. from Prince to Lawrence Sts.,	
LAWRENCE ST. from 37th to 40th Aves. (Amity St.) and lateral (high level) sewers in:	
PRINCE ST. from 36th Ave. to about 35' S. therefrom;	
37TH AVE. from Prince St. to about 20' west therefrom, and from summit about 380' east from Lawrence St. to Lawrence St.,	

LAWRENCE ST. from 37th to 40th Aves.....	\$876,061.80
GREENPOINT AVE. from Queens Blvd. to Hancock St.....	7,304.08
20TH ST. (ARLINGTON AVE.) from Woodside Ave. to Broadway, with temporary connection to existing sewer in WOODSIDE AVE.....	2,893.05
BANKS AVE. from Ditmars to Astoria Aves.,	
BUELL PLACE from Banks Ave. to crown about 250' S. of Banks Ave....	7,233.86
MERRIT ST. from 51st St. to Way Ave.....	5,754.51
BEECKMAN (14TH) ST. from State St. to Mitchell Ave.....	3,842.51
CASCO ST. from Forest Parkway to Yarmouth St.....	2,489.59
OXFORD AVE. from Jamaica to Brandon Aves.....	2,520.61
	<hr/>
	\$2,513,786.82

On December 31, 1919, there were brick and concrete, and pipe sewers, receiving basins and sewage purification plants, as follows:

69.463 miles of Brick and Concrete Sewer
301.100 " " Pipe Sewers
4,104 Receiving Basins
3 Sewage Purification Plants

DRAINAGE PLAN REPORT FOR 1919

Title	Approved by Board of Estimate and Apportionment	Area in Acres	Remarks
4-H and h-I ¹⁵	July 11, 1919	12.0	
7 ⁴ and 22 ³	Dec. 5, 1919	437.0	
Anable Ave.....	Mar. 21, 1919	3.5	Temporary sewer
20 ¹¹	Jan. 31, 1919	35.0	
21 ²³	June 20, 1919	4.0	
24 ¹⁹	Jan. 31, 1919	75.0	
24 ²⁰ and 29-A ¹	Feb. 21, 1919	40.0	
24 ²¹	Dec. 5, 1919	....	Temporary connection, Wood- side Ave.
24 ²²	Dec. 5, 1919	3.0	
24 ²³	Dec. 30, 1919	175.0	
30-A ¹ and 31 ¹	Jan. 31, 1919	105.0	
31 ²	July 11, 1919	....	High level sewers
40-AB ⁵ and 40-B ¹⁹	April 17, 1919	20.0	
40-D ⁴	Dec. 30, 1919	18.0	
40-B ⁵ and 40-B ²⁰	Dec. 30, 1919	70.0	
159th St. (Prospect St.)...	July 18, 1919	3.0	Temporary sewer
50-S	June 6, 1919	3,525.0	Sanitary trunks

Title	Sent to Board of Estimate and Apportionment	Area in Acres	Remarks
20-F ¹	Nov., 1919	200.0	Sanitary and storm
24 ²⁴	Dec., 1919	25.0	
33-A ³ , 33-B ³ and 33-C ² ..	Sept., 1919	1,240.0	Sanitary trunk
33-A ⁴	Dec., 1919	7.0	
33-B ²	June, 1919	215.0	
4th San. Interceptor.....	.....	25,000.0	Studies informally submitted

REPORT OF ANALYZING AND TESTING LABORATORY FOR 1919

Submitted herewith is a summary of materials and supplies tested during 1919.

Special investigations have been conducted along the following lines:

1. Strength of concrete mixtures made from aggregates available in local market.
2. Comparative study of physical properties of soft wood and hard wood paving blocks.
3. Properties of bituminous fillers for granite and wood block pavements.
4. Composition of heat-resisting paints.

The object was to improve and modernize our specifications for cement concrete construction, bituminous joint fillers and wood block pavements. Results have been obtained which indicate lines for experimental work in the field. The results will be published in current engineering journals.

For the special work on non-bituminous materials, as well as routine tests on granite block, broken stone and cement concrete aggregates, it was necessary to use the equipment and facilities of the Testing Laboratory of Columbia University. Funds were requested for purchase of such equipment in the departmental estimates of 1919 which was denied by the Committee on Budget.

SUMMARY OF TESTS FOR 1919

BITUMINOUS MATERIALS

	No. of Samples	Quantity
Road Oil for Cold Application.....	64	364,019 gals.
Road Oil for Hot Application.....	19	71,705 "
Bituminous Road Surfacing Material.....	22	77,668 "
Bituminous Joint Filler.....	43	160 tons
Asphaltic Cement.....	18	517 "
Asphalt Block.....	24	72,000 blocks and 11,871 sq. yds.
Sheet Asphalt.....	89	99,523 "
Asphaltic Concrete.....	3	11,029 "
Fuel Oil.....	7	33,000 gals.

NON-BITUMINOUS MATERIALS

Cement, Sewer Construction.....	115	} Representing concrete sewers	
Sand, Sewer Construction.....	115		
			Diam.
			3,886 lin. ft., 8'-10'
			7,357 " 6'-8'
			11,274 " 4'-6'
			9,437 " 2'-4'
Cement, Highway Construction.....	72	} concrete foundation	14,726 cu. yds.,
Sand, Highway Construction.....	72		1,380 bags
Cement, Maintenance of Highways and Sewers....	14		59,574 "
Cement, Bureau of Buildings.....	15		6,506 cu. yds.
Sand, Maintenance of Highways.....	14		341½ cu. yds.
Mineral Aggregates, Cement Concrete Construction	10		21,995 cu. yds.
Broken Stone.....	36		2,485 "
Sand Grit.....	11		38,021 sq. yds.
Granite Block.....	8		42,700
Wood Blocks, Pine Creosoted.....	5		76,831
Wood Blocks, Hard Wood, Untreated.....	4		11,000
Vitrified Paving Block.....	1		500
Fire Brick.....	1		1,040 ¾"
Steel Reinforcing Bars.....	1		146 ⅝"
Steel Nosing.....	1		20,000 lin. ft.

SUMMARY OF TESTS FOR 1919—Continued

	No. of Samples	Quantity
SUPPLIES		
Disinfectant.....	4	15 bbls.
Lime.....	15	772.3 tons
Soap.....	3	60 gals.
Lubricating Greases and Oils.....	2	650 lbs.
Machine or Bearing Oil.....	4	14 bbls.
Steam Engine Cylinder Oil.....	2	12 "
Gas Engine Cylinder Oil.....	4	8 "
Oils, Paints and Varnish:		
Benzine.....	2	150 gals.
Turpentine.....	3	250 "
Linseed Oil.....	9	540 "
Shellac.....	1	10 "
Pigments in Oil:		
Red Lead.....	4	4,000 lbs.
White Lead.....	4	7,000 "
Lamp Black.....	1	200 "
Pigments in Japan:		
Drop Black.....	1	250 "
Lamp Black.....	2	550 "
Prussian Blue.....	1	25 "
Chrome Green.....	1	250 "
Venetian Red.....	1	250 "
Vermillion.....	1	250 "
Pigments:		
Gold Bronze.....	1	25 "
Prince's Metallic Brown.....	1	350 "
Ready Mixed Paints:		
Black Heat Resisting.....	3	80 gals.
Light Grey.....	1	25 "
Vermillion.....	2	75 lbs.
Japan Dryers.....	2	50 gals.
Varnish.....	2	115 "
MISCELLANEOUS EXAMINATIONS		
Water Analyses.....	2	
Clinker and Ash.....	2	
Tests of Combustion in Incinerators.....		
Flushing and Ravenswood.....		
Total.....	861	

BUREAU OF SEWERS, MAINTENANCE DIVISION

OPERATIONS, 1919

Lineal Feet of Sewers Cleaned.....	4,552,082
Manholes Cleaned.....	20,336
Loads Removed from Sewers.....	5,086
Basins Cleaned.....	9,872
Loads Removed from Basins.....	14,135
Cubic Yards Material Removed from Basins.....	12,239
Basins Relieved.....	27,766
Basins Repaired.....	36
Lineal Feet of Drains Cleaned.....	373,590
Lineal Feet of Sewers Repaired.....	484
Loads Removed from Drains.....	7,075
Basins Built.....	11
Manholes Built.....	5
Manhole Covers Replaced.....	60
Gallons Sewage Pumped and Treated (Newtown Plant).....	501,854,000
" " " " " (Jamaica Plant).....	15,935,200,000
" " " " " (Far Rockaway Plant).....	472,357,000

BUREAU OF STREET CLEANING

WORK ACOMPLISHED

722,410,774 sq. yds. of pavement were cleaned by hand during 1919
9,153,684 " " " " " " machine during 1919
757,221.33 cu. yds. of ashes, garbage, rubbish and street sweepings
collected and disposed of during 1919.

The following gutters and crosswalks were cleaned by the regular force:

181,507 lin. ft. Crosswalks Cleaned.
534,045 " Gutters Cleaned.
3,200 " Roadways Cleaned.

NEW STRUCTURES

On November 12, 1919, a seventy-ton Incinerator plant was put into operation at 131st Street and College Point Causeway, Flushing, L. I. This plant has given entire satisfaction, and its capacity is adequate to successfully take care of the garbage throughout the Flushing and College Point territories.

BUREAU OF PUBLIC BUILDINGS AND OFFICES

BRIEF REVIEW OF THE YEAR'S WORK

The brick work around the boilers in Queens County Court House was in very bad condition. It was necessary to take down all brick work, lining, etc., and rebuild same. The metal work on the dome and roof has been thoroughly scraped and cleaned of rust; coated with red lead, and painted two coats of white lead paint. The walls, ceilings, wood and metal work in the County Building, Jamaica, including the halls, main and private offices of the County Clerk, and offices and court room of the Surrogate, have been renovated, painted and decorated. Extensive alterations and repairs have been made to the lighting system.

The rooms on the third floor of the Town Hall, Jamaica, occupied by the Spanish American War Veterans were in bad condition, and the floor worn and splintered. Metal ceilings and side walls were installed and attractively painted, a new hard-wood floor laid, electrical equipment altered and repaired, toilet room overhauled and put in good order.

The plaster ceiling in the Magistrates' court room, Far Rockaway, had become loosened and broken, and a metal ceiling was installed and painted.

The plumbing in the toilets, etc., of the various buildings has been kept in good repair and condition, the steam boilers, radiators, etc., overhauled and repaired, roofs, gutters and leaders, repaired and renewed where necessary. Electrical installations, alterations and repairs were made wherever required, electric elevators adjusted, and fan motors, vacuum-cleaner motors and other electrical apparatus was cleaned, oiled and kept in order. All necessary carpentry has been attended to at the various buildings, and much old furniture and office equipment repaired and made serviceable for several years' use.

INTERIOR BATH, EIGHTH STREET, LONG ISLAND CITY

PATRONAGE

	Males	Females	Total
January.....	2,937	1,066	4,003
February.....	2,320	922	3,242
March.....	3,516	1,117	4,633
April.....	3,556	1,151	4,707
May.....	4,473	1,565	6,038
June.....	7,908	3,206	11,114
July.....	6,723	2,709	9,432
August.....	6,637	2,607	9,244
September.....	5,555	1,964	7,519
October.....	4,531	1,444	5,975
November.....	4,269	1,250	5,519
December.....	3,546	1,032	4,578
Total.....	55,971	20,033	76,004

OBSERVATIONS AND COMMENTS

During the summer months the Plaza in front of the Queens County Court House and the grounds adjoining the Town Hall at Flushing and Jamaica, have been made attractive with flower beds, shrubbery, etc. The patronage at the Interior Bath, 8th St., L. I. City, and the Comfort Station, Jamaica, show a material increase over the previous year.

TOPOGRAPHICAL BUREAU

FINAL AND ALTERATION MAPS

During the year the Board of Estimate and Apportionment approved eight Final Sections, six Special Final Maps, and forty-two Alteration Maps. Within the same period we completed and forwarded to the Board for its approval four Final Sections, three Special Final Maps, and forty-eight Alteration Maps. Of the maps approved by the Board the entire eight Final Sections, five Special Final Maps and twenty Alteration Maps were in its hands awaiting approval at the close of 1918, and the beginning of 1920 finds in the hands of the Board, awaiting its approval, seven Final Sections, ten Special Final Maps and forty-seven Alteration Maps. We have in course of preparation sixty-two Final Sections, one Special Final Map being surveyed and six being drafted, and twenty-nine Alteration Maps, one being surveyed, five being computed and twenty-three being drafted.

STREET OPENING PROCEEDINGS AND STREET OPENING MAPS

The Local Boards authorized acquisition of title to eighteen streets, and the Board of Estimate and Apportionment instituted proceedings to acquire title to forty-seven streets and one territorial area, of which thirty were new proceedings and seventeen amended proceedings.

Street Opening Maps in thirty-six proceedings, totaling 63,354 feet, were approved by the Board of Estimate and Apportionment. We also completed and forwarded to the Board for its approval thirty-three Rule Maps, totaling 42,104 feet, and thirty-two Draft Damage Maps, totaling 42,104 feet.

To the Corporation Counsel we forwarded eighteen Final Damage Maps, totaling 63,835 feet, and twenty Benefit Maps, the areas of which have not yet been computed.

In course of preparation we have twenty-five Rule Maps, totaling about 80,499 feet, twenty-six Draft Damage Maps, totaling 81,699 feet, seventy-three Final Damage Maps, totaling about 167,296 feet, and seventy-three Benefit Maps, the acreage of which has not yet been computed.

JAMAICA BAY BOULEVARD

Work on this project was advanced and preliminary authorization for the physical improvement was obtained. It is impossible to state definitely when final authorization will be secured, but the adoption of a resolution to this effect now is all that is necessary to make available funds for the construction of this all-important highway, so vital to the needs of the Rockaways and to the entire city at large. The work has necessitated constant interviews between this Bureau and owners and lessees of prop-

erties through which the Boulevard is to run. On March 21st the map establishing lines and grades of this roadway was adopted by the Board of Estimate and Apportionment, and on September 2d, the project received approval of the War Department. Preliminary authorization was granted by the Board of Estimate and Apportionment on December 30th, and therefore has placed this body on record as favorable to the idea.

CONDUIT BOULEVARD

There was initiated a project for construction of a great boulevard over the lines of the Conduit, traversing portions of Brooklyn, Queens, and the County of Nassau.

Pursuant to resolution adopted by a committee representing both the City of New York and the County of Nassau a map was made by this Bureau laying down proposed roadways.

A bill providing for construction of this roadway and State aid therefor was submitted to the 1919 Legislature, but failed of passage, and it is expected that a similar bill, containing the same provisions, will be submitted in 1920 to the Legislature.

The force engaged in plotting this map was supplemented by men from the Sewer and Highway Bureau, and from Brooklyn. The entire time consumed in its preparation was about six weeks.

FLUSHING RIVER

A proceeding for acquisition of this waterway is now advanced to a point where title can be vested in the City at about two months' notice.

The adoption of a resolution to this extent will clear the way for the projected Government improvement. The survey work has been completed, and the Street Opening Division is engaged in the preparation of maps to be used in connection with the proceeding.

NEWTOWN CREEK

Considerable efforts, with a view to fixation of bulkhead lines and establishment of title to this waterway, were made, with the result that approval of the War Department in regard to the bulkhead lines of Newtown Creek and Maspeth Basin was obtained.

The map for City adoption will be submitted to the Board of Estimate and Apportionment early in 1920, and when approved the proceeding for acquiring title to areas needed will be initiated shortly thereafter.

The federal funds for physical improvement now are available and can be used as soon as title is acquired. The Boroughs of Brooklyn and Queens have been associated in this project, and a hearing was held in Brooklyn Borough Hall during the year. At this meeting, which was attended by several property owners, it became evident that an opening proceeding would be necessary in order to reconcile the divergent views of these taxpayers.

ROCKAWAY BEACH EROSION

With a view to creation of sufficiently adequate protective measures regarding the continual erosion of the Rockaway Peninsula there was submitted to the Legislature early in the year an amendment to the 1918 Enabling Act, which failed of passage. Since that time little has been done in this matter, except the study of preventive means.

It is expected that a new bill will be submitted to the 1920 Legislature.

OLD RECORDS

A request was presented to the Board of Estimate and Apportionment for an appropriation of \$6,600, to be used for copying records of the old municipalities of the Borough of Queens, but the Board, upon recommendation of an investigator from the Comptroller's office, cut the amount to \$1,300. Accordingly a contract was made and the entire amount appropriated used for typewriting. The \$1,300 sufficed to copy only about 25 per cent. of the work.

REPAVEMENTS

An exhaustive search is being made for evidence showing streets eligible for repaving without assessment.

GRADES AND GRADE CHARTS

Detail grades were furnished for 85 streets and territorial areas; levels were run, notes reduced and plotted on 52 streets, and profiles were plotted for 74 streets and territorial areas.

At present we have four grade charts about 25 per cent completed, three already adopted and one pending approval by the Board of Estimate and Apportionment.

HOUSE NUMBERS

The street-naming and house-numbering map for the Rockaway Beach Section of the Fifth Ward, which embraces all of the Rockaway Peninsula west of Norton's Creek, is nearing completion and probably will be transmitted for approval about April 1st.

A key map for the street-naming system of the entire Borough has been completed, and will be published in card form for distribution to property owners and other interested parties. The Jamaica and Queens house-numbering maps were adopted during the year.

CESSIONS

According to Chapter 506 of the Laws of 1915 the Board of Estimate and Apportionment has full power to accept or reject street cessions and to fix exemption from assessments that shall be accorded to grantors of accepted deeds.

For guidance of property owners desiring to cede the bed of their streets the Board of Estimate and Apportionment has formulated a set of rules, copies of which may be obtained upon application to this office.

The rule that most immediately concerns this Bureau is Article 5, Paragraph III, which reads:

“The President of the Borough in which the property to be conveyed is located will, upon application from a grantor, prepare a technical description of the property, for incorporation in the deed, providing that proper data is submitted to him to show the relation of the bounding lines of the property to the street lines as laid out upon the City Map.”

SUBSURFACE STANDARDIZATION

Owing to inadequate office force the mapping of substructures has been delayed somewhat, although determination of location of these substructures in the main thoroughfares is progressing. As previously reported, our standard substructure plan is still with the Consulting Engineer of the Board of Estimate and Apportionment.

There is complete co-operation between the public Service Corporation and the Substructure Division regarding supervision in the placement of these underground properties. These corporations come to us for advice on all proposed work and are guided in installing their lines in accordance with our directions.

SPECIAL ACTIVITIES

Among the numerous special activities performed was the making of maps and surveys for the Corporation Counsel to be used in sustaining arguments for public improvements.

Expert testimony in accident and other cases frequently was given, and 101 reports were made relative to street dedications, for which opinions subsequently were rendered.

Photographs were made and reports rendered to the Board of Aldermen and to the Board of Estimate and Apportionment, showing the need for many public improvements—pavements, sewers, etc.

A large number of property subdivision maps were submitted to us under the new law, effective May 11, 1916, which requires that such maps be approved by the Borough President and Board of Estimate and Apportionment, before being filed with the County Clerk. These were examined and approved or disapproved by us, depending upon their agreement or disagreement with our maps.

Reports were written and maps made showing conditions within areas affected by petitions for changes in the maps of Use, Height and Area Zones, as adopted by the Board of Estimate and Apportionment, July 25, 1916.

THE PUBLIC

To better serve the interests of the public and to promote the welfare of the Borough of Queens we always are ready to consider and to apply, where practicable, suggestions and criticisms by the public, and all maps and information in possession of this office are at its disposal. Lithograph copies of all the more important can be purchased at the nominal price fixed by the Board of Estimate and Apportionment; blue prints of the maps which have not been lithographed can be had for the cost of printing, or sketches can be made by any one. All information concerning street title and the procedure for ceding and dedicating them to the City also can be had at this Bureau.

OFFICE ORGANIZATION

The employees of the Topographical Bureau on December 31, 1919, numbered 98* technical men, 40 per diem men and a clerical force of 7 and 2 messengers.

The total cost of maintenance for the year was \$204,891.91, divided as follows: \$170,869.45 Chargeable to Budget; \$34,022.46 Chargeable to Street and Park Opening Fund.

The work of this office falls naturally into three divisions: Borough Map, Street Openings, and Substructures and Franchises.

In addition to these three main divisions there are two small corps termed the Legal Status Corps, and the Topography and Miscellaneous Work Corps. Each of these is closely inter-related with the work of all divisions.

DIVISION OF THE BOROUGH MAP

FINAL SECTIONS (ATLAS SHEETS) APPROVED BY BOARD OF ESTIMATE AND APPORTIONMENT

No. 60 Whitestone	No. 135 Jamaica
" 69 "	" 138 "
" 129 Jamaica	" 141 St. Albans
" 134 Hollis	" 218 Hammels

FINAL SECTIONS (ATLAS SHEETS) BEFORE BOARD OF ESTIMATE AND APPORTIONMENT PENDING APPROVAL

No. 1 Laurel Hill	No. 140 Baisley Pond
" 57 Whitestone	" 227 Far Rockaway
" 67 Murray Hill (Flushing)	" 230 Edgemere
" 139 Jamaica	

FINAL SECTIONS (ATLAS SHEETS) CERTIFIED BY BOARD OF ESTIMATE AND APPORTIONMENT, AND FILED AT THIS OFFICE

No. 55 Flushing	No. 69 Whitestone	No. 134 Hollis
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* Includes men in the service of the United States Government.

FINAL SECTIONS (ATLAS SHEETS) COMPLETED AND FORWARDED TO BOARD OF
ESTIMATE AND APPORTIONMENT FOR CERTIFICATION AND FILING

No. 55 Flushing	No. 134 Hollis
" 60 Whitestone	" 135 Jamaica
" 69 "	" 218 Hammels
" 129 Jamaica	

FINAL SECTIONS (ATLAS SHEETS) IN COURSE OF PREPARATION

BEING SURVEYED

No. 41 Queensboro Hill. 90% completed	No. 85 Bayside..... 80% completed
" 42 Cedar Grove.... 40% "	" 86 " 60% "
" 47 Forest Hills.... 50% "	" 120 Jamaica..... 95% "
" 49 College Point... 80% "	" 133 Hollis..... 25% "
" 59 Whitestone..... 75% "	" 134 " 100% "
" 64 Blackstump..... 80% "	
" 65 " 85% "	(Partial Section)
" 70 Whitestone..... 60% "	" 143 " 95% completed
" 74 " 70% "	" 144 " 90% "
" 76 Auburndale.... 70% "	" 148 Queens..... 30% "
" 77 Kissena Park... 90% "	" 149 " 30% "
" 79 " " 70% "	" 150 St. Albans..... 80% "
" 80 Kew Gardens... 80% "	" 151 Queens..... 40% "
" 81 Jamaica..... 90% "	" 152 Springfield.... 20% "
" 82 Blackstump..... 90% "	" 153 " 15% "
" 83 " 70% "	" 154 Jamaica..... 20% "
" 84 Bayside..... 50% "	" 159 St. Albans..... 15% "
	" 161 Queens..... 40% "

BEING COMPUTED

No. 49 College Point... 60% completed	No. 142 St. Albans..... (Not started)
" 51 Powell's Cove... 98% "	" 143 Hollis..... 60% completed
" 52 " " 23% "	" 144 Bellaire..... 30% "
" 59 Whitestone..... 30% "	" 148 Queens..... 40% "
" 70 " 5% "	" 161 " 20% "
" 74 " 39% "	" 215 Hammels..... 50% "
" 78 Kissena Park... (Not started)	" 219 Arverne..... 75% "
" 85 Bayside..... 65% completed	" 220 " 5% "
" 120 Jamaica..... 15% "	" 228 Edgemere..... 50% "
" 130 " 35% "	" 229 " 85% "
" 134 Hollis..... 85% "	" 232 Far Rockaway.. 95% "
(Partial Section)	" 233 " " 90% "

BEING DRAFTED

No. 53 College Point... 70% completed	No. 232 Dunton..... 70% completed
" 58 Whitestone Land- ing..... 90% "	" 234 Far Rockaway.. 25% "
	" 121 " " 40% "

SPECIAL FINAL MAPS APPROVED BY BOARD OF ESTIMATE AND APPORTIONMENT

- Establishing lines and grades of 129TH (Poland) ST., from 20th to 18th Aves. Approved February 28.
- Establishing lines and grades of JAMAICA BAY BLVD. across Jamaica Bay. Approved March 21.
- Establishing lines and grades of 98TH AVE., from 218th St. to Springfield Blvd. Approved January 10.
- Establishing bulkhead lines along Atlantic Ocean front. Approved May 9.

- Establishing lines and grades of BEACH 62ND ST., from Thursby St. to Ocean Promenade. Approved March 21.
- Establishing lines and grades of CAFFREY AVE., from New Haven Ave. to Beach 9th St. Approved June 20.

SPECIAL FINAL MAPS BEFORE BOARD OF ESTIMATE AND APPORTIONMENT PENDING APPROVAL

- Establishing lines and grades of PUNTINE ST., from South to Cumberland Sts. Dated May 1, 1912. Recalled December 4.
- Establishing street system for Queens-Hollis Section. Dated May 14, 1914.
- Establishing lines and grades of OBERLIN ST., from Mulford Ave. to Willets Point Road. Dated October 8, 1915. Recalled December 4.
- Establishing lines and grades of UNION HALL ST., from South St. to Brinckerhoff Ave. Dated December 11, 1916. Recalled December 4.
- Establishing lines and grades of OCEAN PROMENADE, from Beach 126th St. to 100' west of Proposed Park. Dated May 19, 1916. Recalled December 4.
- Establishing lines and grades of 98TH AVE., from 190th to 195th Sts. Dated May 18, 1916. Recalled December 4.
- Establishing lines and grades of BEACH 130TH ST., from B. Channel Drive to Ocean Promenade. Dated July 18, 1916. Recalled December 4.
- Establishing lines and grades of McNEIL BLVD., from Dabney to Brunswick Aves. Dated Sept. 5, 1916.
- Showing elimination of extension to KISSENA PARK. Dated July 2, 1917.
- Establishing HEAD OF BAY BULKHEAD LINE. Dated March 14, 1918.
- Altering the grades of ROCKAWAY ROAD, from Conduit to City Line. Dated May 2, 1919. Returned to Borough President December 30.
- Establishing lines and grades of 82ND AVE., from Kew Gardens Road to 130th St., and 130TH ST., from 82nd Ave. to Grand Central Parkway. Dated September 30, 1919.

SPECIAL FINAL MAPS CERTIFIED BY BOARD OF ESTIMATE AND APPORTIONMENT AND FILED AT THIS OFFICE

- Establishing lines of 129TH (Tolland) ST., from 20th to 18th Aves. Filed July 2.
- Establishing lines and grades of 98TH AVE., from 218th St. to Springfield Blvd. Filed July 2.

SPECIAL FINAL MAPS COMPLETED AND FORWARDED TO BOARD OF ESTIMATE AND APPORTIONMENT FOR CERTIFICATION AND FILING

- Establishing lines and grades of JAMAICA BAY BLVD., across Jamaica Bay. Forwarded October 8.
- Establishing bulkhead lines along ATLANTIC OCEAN FRONT. Forwarded September 12.
- Establishing lines and grades of BEACH 62ND ST., from Thursby St. to Ocean Promenade. Forwarded August 11.
- Establishing lines and grades of CAFFREY AVE., from New Haven Ave. to Beach 9th St. Forwarded September 12.

SPECIAL FINAL MAPS NOT COMPLETED
BEING COMPUTED

- Establishing lines and grades of 82ND AVE., from 134th to 135th Sts.

BEING DRAFTED

- Establishing street system bounding the REFUSE DESTRUCTOR at BEACH 63RD ST., NORTH ELIZABETH PLACE, BARBADOES CREEK and THURSBY ST.
- Establishing lines and grades of 19TH ST., from Aves. "C" to "D."

Establishing PUBLIC PARK (Lafayette Park), bounded by HILLSIDE AVE., WARWICK AVE., etc.
 Establishing lines and grades of AMSTEL AVE. and MERMAID ST., from Beach 72nd St. to Far Rockaway Blvd.
 Establishing lines and grades of 209TH (Higbie) ST. at intersection with 100th Ave.

GRADE CHART APPROVED BY BOARD OF ESTIMATE AND APPORTIONMENT

No. 62—Flushing

GRADE CHART BEFORE BOARD OF ESTIMATE AND APPORTIONMENT PENDING APPROVAL

No. 11—Woodside

GRADE CHARTS IN COURSE OF PREPARATION

No. 25 Corona.....	10% completed	No. 111 Woodhaven.....	30% completed
" 110 Brooklyn Manor.	25% " "	" 118 Richmond Hill . .	20% " "

ALTERATION MAPS APPROVED BY BOARD OF ESTIMATE AND APPORTIONMENT

Altering the lines and grades of GODFREY AVE., from Clinton to Maspeth Aves. Approved Oct. 24.
 Altering street system of FINAL SECTIONS 18 and 19. Approved January 10.
 Altering lines and grades of BURNSIDE AVE., PATTERSON AVE., and intersecting streets. Approved June 13.
 Altering lines and grades of KINGSLAND AVE., from Junction to Peartree Aves. Approved March 21.
 Altering lines of 103D (Kimball) AVE., from 127th to 129th Sts. Approved February 28.
 Altering grades of 101ST (Jerome) AVE., from 75th to 87th Sts. Approved January 10.
 Altering lines of RIDGEWOOD and CLINTON AVES., from Cedar St. to Maure Ave. Approved April 25.
 Altering lines of AGNES PLACE, from Myrtle Ave. to Rutledge St. Approved January 10.
 Altering grades of BOULEVARD, from Wilbur to Harris Aves., and closing SHERMAN ST., between the same limits. Approved January 10.
 Altering lines and grades of MILLWOOD AVE., DILL PLACE and WALTER ST. Approved March 21.
 Altering grades of CORONA; territory bounded by LOUONA AVE., L. I. R. R., RIVERSIDE AVE., STRONG'S CAUSEWAY, etc. Approved February 28.
 Eliminating HOOD ST. and PUBLIC PARK, between Hazen St. and Ditmars Ave. Approved January 10.
 Altering lines and grades of ATLANTIC AVE., from 80th to 115th Sts. Approved April 25.
 Altering lines of ARCADIA AVE., from 14th to 17th Aves. Approved March 7.
 Altering lines of 123D ST. (North Vine St.), from 85th to Metropolitan Aves. Approved January 24.
 Altering grades of 87TH ROAD, from 78th to 80th Sts. Approved January 10.
 Altering lines and grades of FINAL SECTION 116; bounded by SUTTER AVE., WOODHAVEN AVE., PITKIN AVE., etc. Approved July 11.
 Altering grades of 86TH AVE.; territory bounded by 109th St., Myrtle Ave., 113th St. and Jamaica Ave. Approved April 25.
 Altering lines and grades of 19TH AVE., from Astoria to Wilson Aves. Approved January 10.
 Altering lines of BEATRICE PLACE, from Maiden Lane to Cunningham Lane. Approved May 9.

Altering grades of TRIMBLE AVE., from Queens Blvd. to Woodside Ave. Approved March 21.
 Altering grades of NORTH JANE ST., from Vernon Ave. to Barge Canal Terminal. Approved February 28.
 Altering grades of ROOSEVELT AVE., from 151st St. to Riverside Ave. Approved March 21.
 Altering lines of AGNES PLACE, from Myrtle Ave. to Varian At. Approved June 6.
 Altering street systems of Final Sections 134 and 135. Approved October 24.
 Altering grades of MASPETH AVE., from Rust St. to Clermont Ave. Approved September 26.
 Altering lines and grades of TRAUTWINE ST., from Fisk Ave. to Ramsey St. Approved September 26.
 Establishing PUBLIC PARK at Myrtle Ave. and Cypress Ave. Approved May 23.
 Altering grades of CORONA; bounded by CORONA AVE., RODMAN ST., SOTHERN AVE., etc. Approved December 5.
 Altering lines of SENECA AVE., from Summerfield St. to L. I. R. R. Approved July 11.
 Altering lines of DICKSON ST., from Skillman to Middleburg Aves. Approved September 26.
 Altering lines of 188TH ST., from Hillside to Jamaica Aves. Approved Sept. 26.
 Establishing PUBLIC PARK, bounded by BORDEN AVE., LAUREL HILL BLVD. and LAUREL PLACE. Approved July 11.
 Altering grades of 46TH ST., from Sackett St. to Roosevelt Ave. Approved October 24.
 Establishing pedestrian crossing at CARD PLACE across the L. I. R. R. Approved June 20.
 Altering grades of SHERMAN PLACE, from Harris Ave. to 14th St. Approved December 19.
 Establishing pedestrian crossing at ROACH PLACE across the L. I. R. R. Approved July 11.
 Altering lines of BRIDGE PLAZA NORTH and BRIDGE PLAZA SOUTH, from Crescent St. to Jackson Ave. Approved September 26.
 Showing property to be acquired for Screening and Sedimentation Plant Area near SEASIDE PARK. Approved July 11.
 Altering lines and grades of WOODHAVEN AVE., from Forest Park to Liberty Ave. Approved October 17.
 Altering grades at intersection of JACKSON AVE. and 25TH ST. Approved October 31.

ALTERATION MAPS BEFORE THE BOARD OF ESTIMATE AND APPORTIONMENT PENDING APPROVAL

Establishing Pier and Bulkhead Lines of Newtown Creek, Maspeth Creek, Dutch Kills Creek, East River, Bowery Bay and Flushing Bay.
 Altering grades of RENE PLACE, from Grandview to Metropolitan Aves. Dated February 11, 1913.
 Altering grades of RAWSON ST., from Foster Ave. to Queens Blvd. Dated April 25, 1913.
 Establishing lines and grades of OLD ELMHURST AVE., from Roosevelt to Junction Aves. Dated November 8, 1915. To be revised if sent back.
 Altering grades of ASHLAND ST., from Diamond St. to Freedom Ave. Dated January 14, 1914. Recalled December 4.
 Four parcels of land at CLARK ST. to be acquired for sewer easements. Dated March 10, 1914.
 Altering United States Bulkhead Line, from Beach 116th St. to L. I. R. R. Dated April 17, 1914. Recalled December 4.
 Altering grades of FRONT ST., from Borden to Newtown Aves. Dated July 2, 1914.
 Altering lines of 7TH ST., from Stryker Ave. to L. I. R. R. Dated April 20, 1915. Recalled December 14.

Altering grades of 101ST ST., from 99th to 101st Aves. Dated May 1, 1915.
 Closing 7TH ST., from L. I. R. R. for 25 feet. Dated June 23, 1915. Recalled December 14.
 Altering street lines within territory bounded by BEACH 25TH ST., FERNSIDE PLACE, CAMP PLACE and SEAGIRT AVE. Dated October 11, 1915.
 Establishing lines of COLLINS AVE., across L. I. R. R. Dated September 30, 1915.
 Altering grades of 110TH and 111TH STS., from Myrtle to Jamaica Aves. and of 86TH ST., from 109th to 112th Sts. Dated November 22, 1916. Recalled and superseded by No. 811.
 Closing OLD HAWTREE CREEK ROAD, from Old South Road to Dumont Ave. Dated November 24, 1916.
 Altering grades of VAN ALST AVE., from Jackson Ave. to 6th St. Dated October 5, 1916. Referred back to Borough President October 27, 1917.
 Altering lines and grades of ROACH PLACE, from South Railroad to Kingsland Aves. Dated June 26, 1916.
 Altering lines and grades of JUNCTION AVE., from Burnside to Corona Aves. Dated July 31, 1917.
 Altering lines and grades of 1ST ST., from Woodside to Skillman Aves. Dated November 15, 1917. Completed but not yet forwarded.
 Placing OLD GRAND AVE. upon the map, from 14th to 17th Aves. Dated October 26, 1917. Referred back and superseded by T. B. No. 802.
 Establishing a PUBLIC PARK at the intersection of Myrtle Ave. and Cooper Ave. Dated February 19, 1919. T. B. No. 828. Completed but not forwarded.

ALTERATION MAPS COMPLETED AND FORWARDED TO BOARD OF ESTIMATE AND
 APPOINTMENT FOR APPROVAL

Altering lines and grades of GROUT AVE., from Schroeder Place to Hyatt Ave. Forwarded May 23.
 Altering lines and grades of LIBERTY PARK; bounded by DILL PLACE, COOPER AVE., MT. CARMEL CEMETERY, etc. Forwarded March 28.
 Altering lines of BEATRICE PLACE, from Maiden Lane to Cunningham Lane. Forwarded January 28.
 Altering grades of TRIMBLE AVE., from Queens Blvd. to Woodside Ave. Forwarded November 22, 1918.
 Altering lines and grades of FAIRMONT ST., from existing Fairmont St. to Cypress Ave. Forwarded May 23.
 Eliminating Middleburg Ave., from Jackson Ave. to 575' east. Forwarded October 18.
 Altering grades of 2ND ST., from Stryker Ave. to L. I. R. R. Forwarded January 29.
 Altering grades of MASPETH AVE., from Rust St. to Clermont Ave. Forwarded February 25.
 Altering grades and lines of TRAUTWINE ST., from Fisk Ave. to Ramsey St. Forwarded April 4.
 Establishing PUBLIC PARK at intersection of Myrtle Ave. and Cypress Ave. Forwarded February 20.
 Closing HOMANS AVE., from Van Horn to Wool Sts. Forwarded May 16.
 Altering lines and grades of BORDEN AVE., from Betts Ave. to Grand St. Forwarded September 16.
 Altering lines of HOWELL AVE., from Woodside Ave. to 5th St. Forwarded Sept. 19.
 Altering grades of CORONA; territory bounded by CORONA AVE., RODMAN ST., SOTHERN AVE., etc. Forwarded April 7.
 Altering lines of SENECA AVE., from Summerfield St. to the L. I. R. R. Forwarded May 1.
 Altering lines of DICKSON ST., from Skillman to Middleburg Aves. Forwarded May 15.

Altering lines of 188TH ST., from Hillside to Jamaica Aves. Forwarded May 2.
 Establishing PUBLIC PARK, bounded by BORDEN AVE., LAUREL HILL BLVD.
 and LAUREL PLACE. Forwarded May 1.
 Showing sewer easement in HOBSON AVE., from Creek St. to Newtown Creek. For-
 forwarded June 9.
 Establishing pedestrian crossing at CARD PLACE across the L. I. R. R. Forwarded
 May 24.
 Altering grades of CYPRESS HILLS ROAD, from Fresh Pond Road to Central Ave.
 Forwarded July 17.
 Altering grades of SHERMAN PLACE, from Harris Ave. to 14th St. Forwarded
 June 26.
 Establishing pedestrian crossing at ROACH PLACE, across the L. I. R. R. Forwarded
 June 19.
 Altering lines of BRIDGE PLAZA NORTH and BRIDGE PLAZA South, from Cres-
 cent St. to Jackson Ave. Forwarded August 4.
 Altering lines of BROADWAY, from Newtown Road to Queens Blvd. Forwarded
 October 2.
 Showing property to be acquired for Screening and Sedimentation Plant Area, near Sea-
 side Park. Forwarded June 26.
 Altering grades of GROVE and LINDEN STS. from Prospect St. to Fresh Pond Road.
 Forwarded September 12.
 Altering lines and grades of 86TH AVE. from Forest Parkway to 85th St. Forwarded
 October 17.
 Altering lines and grades of LAURENSEN PLACE from Queens Blvd. to Monroe St.
 Forwarded November 14.
 Altering lines of ELDERTS LANE from 85th Road to 90th Ave. Forwarded October 8.
 Altering lines of SANDOL and PANSY STS. from Cooper to Myrtle Aves. and
 GLASSER ST. from Sandol to Slocum Sts. Forwarded October 18.
 Altering lines and grades of WOODHAVEN AVE. from Forest Park to Liberty Ave.
 Forwarded August 29.
 Showing sewer easement in ROWAN ST. from Maspeth Ave. to Grand St. Forwarded
 October 21.
 Showing sewer easement in PEARTREE AVE. from Jackson to Hayes Aves. For-
 forwarded November 14.
 Showing grade change at intersection of Jackson Ave. to 25th St. Forwarded October 10.
 Altering grades of CROCHERON AVE. DEPOT LANE, etc., in Flushing. Forwarded
 December 6.
 Altering lines of MARY ST. at Eliot Ave. Forwarded December 8.
 Altering grades of 159TH (19th) ST. at Depot Lane. Forwarded December 6.
 Altering lines of HINMAN ST. and GRIFFITH AVE., from Wayne to Steuben Sts.
 Forwarded December 29.
 Showing sewer easement in 13TH ST., from Fillmore Ave. to Trains Meadow Road.
 Forwarded December 12.
 Establishing lines and grades of ELKHORN ST., from Fairfield to Cozine Aves. For-
 forwarded December 29.
 Altering lines and grades of 90TH AVE., from Elderts Lane to 76th St., and COURT
 ST., from 88th Road to 90th Ave. Forwarded December 29.
 Altering lines of VOORHEES PLACE, from Roosevelt Ave. to Hunt St. Forwarded
 December 29.

ALTERATION MAPS CERTIFIED BY BOARD OF ESTIMATE AND APPORTIONMENT
 AND FILED AT THIS OFFICE

Altering street system of FINAL SECTIONS 18 and 19. Filed August 23.
 Altering lines of ROCKAWAY BLVD, and ELDERTS LANE, from 90th to 91st Ave,
 Filed July 2,

Establishing PUBLIC PARK bounded by CORONA AVE., PARCELL ST. and CHICAGO ST. Filed July 2.

Altering lines and grades of MANOR AVE., from Ashland St. north. Filed July 2.

Altering lines of 103RD (Kimball) AVE., from 127th to 129th Sts. Filed August 23.

Re-establishing Pier and Bulkhead Lines of Flushing River and contiguous streets. Filed March 14.

Altering grades of DELAWARE AVE., from Parsons Blvd. to 147th St. Filed March 14.

Altering grades of WEIRFIELD ST., from Wyckoff Ave. to Borough Line. Filed July 2.

Altering grades of 85TH AVE., from 102nd to 105th Sts. Filed July 2.

Showing extension of NORTH JANE ST. and elimination of ROGERS ST., from Vernon Ave. to Bulkhead Line. Filed March 14.

Altering grades of METROPOLITAN AVE., from Lefferts Blvd. to 123rd St., and BREVOORT ST., from Abingdon Road to 84th Ave. Filed March 14.

Altering grades of 101ST AVE., from 75th to 87th Sts. Filed July 2.

Altering angles and dimensions of BOROUGH LINE, from North Conduit to Dumont Aves. Filed July 2.

Altering lines of AGNES PLACE, from Myrtle Ave. to Rutledge St. Filed July 2.

Altering grades of BOULEVARD and closing SHERMAN ST., from Wilbur to Harris Aves. Filed Aug. 23.

Altering lines and grades of SOUTH RAILROAD AVE., from Card Place to Junction Ave. Filed July 2.

Altering grades of CORONA; territory bounded by LOUONA AVE., RIVERSIDE AVE., STRONG'S CAUSEWAY, etc. Filed November 19.

Altering lines and grades of FAIRBANKS AVE., from 16th St. to Baxter Ave. Filed July 2.

Eliminating HOOD ST. and PUBLIC PARK, from Hazen St. to Ditmars Ave. Filed July 2.

Altering grades of 40TH ROAD, from Joe Place to Main St. Filed July 2.

Altering lines of ARCADIA AVE., from 14th to 17th Aves. Filed December 31.

Altering lines of 123RD (North Vine St.) ST., from 85th to Metropolitan Aves. Filed July 2.

Altering grades of 87TH ROAD, from 78th to 80th Sts. Filed July 2.

Altering pier and bulkhead lines of FLUSHING RIVER, from Fowler to Gilroy Ave. Filed August 23.

Altering lines and grades of 19TH AVE., from Astoria to Wilson Aves. Filed July 2.

Altering grades of NORTH JANE ST., from Vernon Ave. to Barge Canal Terminal. Filed August 23.

ALTERATION MAPS WITH THE BOARD OF ESTIMATE AND APPORTIONMENT FOR CERTIFICATION AND FILING

Altering lines and grades of BURNSIDE AVE., PATTERSON AVE. and intersecting streets.

Altering lines and grades of KINGSLAND AVE., from Junction Ave. to Peartree Ave.

Altering lines of RIDGEWOOD and FULTON AVES., from Cedar St. to Maure Ave.

Altering lines and grades of MILLWOOD AVE., DILL PLACE and WALTER ST.

Altering lines and grades of FINAL SECTION 116; territory bounded by SUTTER AVE., WOODHAVEN AVE., PITKIN AVE., etc.

Altering grades of 86TH AVE.; territory bounded by 109TH ST., MYRTLE AVE., 113TH ST. and JAMAICA AVE.

Altering lines of BEATRICE PLACE, from Maiden Lane to Cunningham Lane.

Altering grades of TRIMBLE AVE., from Queens Blvd. to Woodside Ave.

Altering grades of ROOSEVELT AVE., from 51st St. to Riverside Ave.

Altering lines of AGNES PLACE, from Myrtle Ave. to Varian St.

Altering grades of 2ND ST., from Stryker Ave. to L. I. R. R.

Establishing a PUBLIC PARK at the intersection of MYRTLE AVE. and CYPRESS AVE.

Altering lines of SENECA AVE., from Summerfield St. to the L. I. R. R.

Establishing a PUBLIC PARK, bounded by BORDEN AVE., LAUREL HILL BLVD., and LAUREL PLACE.

Establishing a pedestrian crossing at CARD PLACE across the L. I. R. R.

Map establishing a pedestrian crossing at ROACH PLACE across the L. I. R. R.

Altering lines and grades of WOODHAVEN AVE., from Forest Park to Liberty Ave.

ALTERATION MAPS NOT COMPLETED

BEING SURVEYED

GRAND ST.: Kneeland St. to Queens Blvd. (Not started.)

MERRICK BLVD.: South Road to Hook Creek Blvd.

OLD FLUSHING AVE.: Grand St. to 360' north.

BEING COMPUTED

82ND AVE.: 134th to 135th Sts. (Not started.)

GRAND ST.: Kneeland St. to Queens Blvd. (Not started.)

CASPIAN ST.: Collins to Prospect Aves. (Not started.)

BEING DRAFTED

JAGGAR AVE.: Underhill to Sanford Aves.

WOODHILL PLACE: Grand to Falkner Sts.

OLD BOWERY BAY ROAD: 2nd Ave. to Hazen St.

9TH ST.: Woodside Ave. to L. I. R. R. (Completed but not forwarded.)

ARCTIC ST.: And vicinity.

12TH ST.:

1ST ST.: Woodside to Skillman Aves. (Completed but not forwarded.)

BERRIAN AVE.: Riverside to Harper Aves.

BUSKIRK PLACE: Seabury St. to Queens Blvd.

CYPRESS HILLS ROAD: Myrtle Ave. to Borough Line.

QUEENS AVE.:

LARCH ST.: Parsons Ave. to Fresh Meadow Road.

FINAL SECTION 134: 182nd Place to 183rd St.

OTIS AVE.: Orontes to Rodman Sts.

KINGSLAND AVE.: Broadway to Junction Ave.

Tentative Map for Section east of Springfield Road.

UNION TURNPIKE: Queens Blvd. to Metropolitan Ave.

LEININGER PLACE: Lawrence to Debevoise Ave.

WILLOW PLACE: 130th St. to 275' east.

MERRICK BLVD.: South Road to Hook Creek Blvd.

82ND ROAD:

83RD AVE.: Kew Gardens Road to 130th St.

83RD ST.:

84TH ST.:

OLD 2ND ST.:

OLD 3RD ST.: Rockaway Blvd. to 97th Ave.

LYON AVE.: Astoria to Ditmars Aves.

ELIOT AVE.: Fresh Pond Road to Mt. Olivet Ave.

YELLOWSTONE AVE.: Queens Blvd. to 51st St.

43RD ST.: Astoria to Beauregard Aves.

SAULL ST.: Lynch Place to Peck Ave.

DIVISION OF STREET OPENINGS

STREET OPENING PROCEEDINGS INSTITUTED BY THE BOARD OF ESTIMATE AND APPORTIONMENT

	Instituted
ROCKAWAY BLVD.: Elderts Lane to 75th St.....	Jan. 3
223RD ST.: 110th to Hempstead Aves.....	Jan. 10
123RD ST.: 12th to 13th Aves.....	Jan. 24
PEARTREE AVE.: Jackson Ave. to Pell St.....	Feb. 14
GRIFFITH AVE.: Metropolitan Ave. to Central Ave.....	Feb. 14
STEUBEN ST.: Proctor St. to Morton Ave.....	Feb. 14
37TH ST.: Banta St. to Hunt St.....	Feb. 14
TIEMANN AVE.: Lurting to Nichols Sts.....	Feb. 14
EVA PLACE: Flushing Ave. to Hemlock Place;	
HEMLOCK PLACE: Collins Ave. to Fresh Pond Road.....	Mar. 7
FLUSHING RIVER: DeLavall to Livingston Sts.....	Mar. 21
FIRST ST.: Woodside Ave. to Matthews Place.....	Mar. 21
ROCKAWAY BLVD.: Elderts Lane to Atlantic Ave.....	April 25
*FAIRBANKS AVE.: Broadway to Baxter Ave.;	
*25TH ST.: Baxter to Roosevelt Ave.;	
*BAXTER AVE.: Fairbanks Ave. to 25th St.....	May 9
19TH AVE.: Broadway to Astoria Ave.;	
20TH AVE.: Jackson to Grand Aves.....	May 2
43RD ST.: Ditmars to Burnside Ave.;	
ASTORIA AVE.: At its northerly intersection with 43d St.....	June 13
MIDDLEBURG AVE.: Barnett to Woodside Aves.....	June 13
RIDGEWOOD AVE.: L. I. R. R. to 110' east of Spruce St.....	June 20
*AGNES PLACE: Myrtle Ave. to L. I. R. R.;	
*BERTHA PLACE: Myrtle Ave. to Varian St.;	
*CONSTANTIA PLACE: Myrtle Ave. to Varian St.;	
*VARIAN ST.: Ford St. to Agnes Place;	
*WEISSE AVE.: Varian St. to L. I. R. R.....	July 11
BAISLEY BLVD.: Rockaway Blvd. to Byron St.;	
BYRON ST.: Baisley Blvd. to Cornell Basin;	
NORTH CONDUIT AVE.: Baisley Blvd. to 132nd St.;	
132ND ST.: North Conduit Ave. to Jamaica Dis. Plant.....	July 18
HAZEN ST.: Astoria to Berrian Aves.;	
HOOD ST.: Hazen St. to Ditmars Ave.....	July 18
FREEHOLD ST.: Ulster Ave. to Baisley Blvd.....	July 18
TUCKERTON ST.: Guinzburg Place to Blakely St.;	
153RD ST.: South Road to 107th Ave.;	
155TH ST.: South St. to Yukon Ave.....	July 18
ULSTER AVE.: Sutphin Road to Smith St.....	July 18
SEDIMENTATION PLANT AREA, near SEASIDE PARK.....	July 11
FITTING ST.: Barnett to Nelson Aves.....	Sept. 26
FIRST ST.: Jackson to 21st Aves.....	Sept. 26
*STONE ST.: Greenpoint Ave. to Queens Blvd.;	
Skillman to Barnett Aves.;	
*DICKSON ST.: Skillman to Barnett Aves.....	Nov. 7
*TRAUTWINE ST.: Fisk Ave. to Ramsey St.....	Nov. 7
*SENECA AVE.: Borough Line to Willoughby Ave.;	
Summerfield St. to St. Felix Ave.....	Nov. 21
*POLK AVE.: 13th St. to Fisk Ave.;	
*13TH ST.: 12th St. to Polk Ave.....	Dec. 12
85TH DRIVE: 80th St. to 83rd St.....	Dec. 19

* Amended proceedings.

Passed Local Board

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Passed Local Board

HAROLD AVE.: Queens Blvd. to Borden Ave.....	May 27, 1915
HARPER AVE.: Jackson Ave. to Bulkhead Line.....	Sept. 4, 1919
HARSELL ST.: Van Alst Ave. to East River.....	Dec. 19, 1907
HAYES AVE.: De Puyster St. to Jackson Ave.....	July 20, 1916
HERBERT ST.: Rust St. to Clermont Ave.....	April 30, 1914
HICKS AVE.: Thomson to Woodside Aves.....	June 10, 1909
HOLLIS AVE.: 99th St. to Rosedale Blvd.....	Oct. 26, 1916
HOMELAWN AVE.: Hillside to Highland Aves.....	Jan. 25, 1910
HOWELL AVE.: Woodside Ave. to 5th St.....	Dec. 7, 1916
HUNT ST.: Van Dine St. to 330' easterly; 42nd St. Louona Ave.....	Jan. 4, 1917
INTERBOROUGH PARKWAY: Eastern Parkway to Forest Park, JACOBSEN ST.: Britton to Baxter Aves.....	Dec. 12, 1913
JAMAICA AVE.: Between lines of Rockaway Beach Division of L. I. R. R.....	Mar. 31, 1910
JERMYN PLACE: Guinsburg Place to South St.....	June 19, 1914
JOHNSON AVE.: Rockaway Road to Division St.....	Nov. 20, 1912
JONES AVE.: Clifton to Debevoise Aves.....	June 25, 1914
JOY AVE.: Laurel Hill Blvd. to Debevoise Ave.....	Dec. 12, 1913
JUNCTION AVE.: Burnside Ave. to Hoffman Blvd.....	Feb. 25, 1909
KINGSLAND AVE.: Elbertson to Havemeyer Sts.....	April 20, 1909
LAUREL HILL AVE.: Anable to Borden Aves.....	Mar. 6, 1914
" " " Skillman to Borden Aves.....	June 5, 1909
LEBANON ST.: Mulford Ave. to Willets Point Road (Awaiting adoption of Final Section).....	Jan. 23, 1914
LIBERTY AVE.: Van Wyck Ave. to Carlisle St.....	Oct. 26, 1916
LOCUST ST.: Barnett to Skillman Aves.....	Dec. 9, 1915
LOUONA AVE.: Corona to Way Aves.....	Mar. 22, 1917
McPHERSON ST.: Shaler to Cornelia Sts.....	June 30, 1910
MAIN ST.: Grand to Van Alst Aves.....	May 10, 1912
MERCHANT ST.: Hoyt to Ditmars Aves.....	Oct. 1, 1914
MIDDAGH ST.: Fairbanks Ave. to westerly line of Old Grove St.....	Sept. 23, 1915
MILLS ST.: Orchard St. to Bulkhead Line of East River.....	Feb. 16, 1912
" " East River to Fulton Ave.....	April 12, 1911
" " Orchard St. to Fulton Ave.....	Jan. 20, 1911
MITCHELL AVE.: Murray St. to 31st St.....	April 5, 1906
	Oct. 25, 1906
MONTGOMERY AVE.: Borden to Clinton Aves.....	Dec. 12, 1913
MORTON AVE.: Central Ave. to a property line 20' north of Hosack St.....	Jan. 14, 1915
NAPIER AVE.: Across the L. I. R. R.....	June 16, 1911
NORTH CONDUIT AVE.: 79th St. to Blake Ave.....	Sept. 20, 1917
NOTT AVE.: Vernon Ave. to East River.....	July 12, 1912
NOTTAWA AVE.: Smith St. to New York Ave.....	May 13, 1912
OCEAN PARKWAY: PROPOSED PARK: Beach 126th to Beach 141st Sts.....	Dec. 9, 1915
ONDERDONK AVE.: Metropolitan to Catalpa Aves.....	April 29, 1909
PACKARD ST.: Skillman to Borden Aves.....	Sept. 24, 1908
PARK LANE: Bell Ave. to Little Neck Bay; Both sides of Crocheron Ave.....	Mar. 3, 1911
" " Myrtle Ave. to Union Turnpike.....	Mar. 30, 1916
PEARTREE AVE.: Jackson Ave. to Pell St.....	Sept. 4, 1919
PELL ST.: Jackson to Polk Aves.....	June 30, 1910
PERCY ST.: Sanford Ave. to Bayreuth St.....	Dec. 27, 1912
PHRANER AVE.: South St. to Yukon Ave.....	Sept. 28, 1916
PLATWOOD AVE.: Sutter Ave. to Rockaway Blvd.....	Feb. 27, 1917
POLK AVE.: Woodside Ave. to 8th St.....	Sept. 20, 1905

Passed Local Board

POLK AVE.: Junction Ave. to Pell St.....	June 30, 1910
PUBLIC PARK: Myrtle Ave. addition to Forest Park.....	Mar. 21, 1907
PUBLIC PLACE: Bounded by Young St., Gale St., etc.....	June 25, 1914
RAILROAD AVE.: Maurice Ave. to Grand St.....	Sept. 20, 1905
RALPH ST.: Grandview Ave. to Fresh Pond Road.....	Sept. 10, 1906
RAMSEY ST.: Queens Blvd. to Grand St.....	Nov. 15, 1912
REVIEW AVE.: Howard to Pearsall Sts.....	
ROACH PLACE: Kingsland Ave. to south side of L. I. R. R.....	June 5, 1919
RODMAN ST.: Queens Blvd. to Flushing River.....	Nov. 20, 1919
ROGERS ST.: Vernon Ave. to Barge Canal Terminal.....	Oct. 18, 1917
SAMUELSON ST.: Corinth Ave. to Division St.....	Nov. 15, 1912
SAULL ST.: Across right-of-way of L. I. R. R.....	May 25, 1916
“ “ California to Hammell Aves.....	April 25, 1913
SEDGWICK ST.: Kossuth Place to Cornelia St.....	June 30, 1910
SLOCUM ST.: Edsall Ave. to Madison St.....	July 18, 1906
SOUTH RAILROAD AVE.: Broadway to Roach Place.....	Jan. 23, 1914
SPRUCE ST.: Atlantic Ave. north to Atlantic Ave. south (awaiting adoption of Special Final Map).....	Feb. 26, 1915
STANHOPE ST.: 351.9' n.e. of Grandview Ave. to Metropolitan Ave.....	Jan. 14, 1915
STATE ST.: 17th to 31st Sts.....	June 25, 1908
STEVENS ST.: Fulton Ave. to Main St.....	May 10, 1912
STILES PLACE: Queens Ave. to Station Road.....	Sept. 23, 1913
SUTTER AVE.: Hatch to Plattwood Aves.....	Feb. 27, 1917
SUWANEE AVE.: Rockaway Blvd. to Sutphin Road.....	Feb. 27, 1917
TENNESSEE ST.: Rockaway Blvd. to No. Conduit Ave.....	May 28, 1914
TORY ST.: Barkins St. to Flushing River.....	June 30, 1910
TOWER PLACE: Freedom to Oxford Aves.....	June 30, 1914
TOWNSEND AVE.: Clifton to Debevoise Aves.....	Feb. 25, 1914
UPLAND PARK ADDITION: Petition to acquire 2.316 acres.....	April 25, 1913
VAN DINE ST.: Kingsland to Roosevelt Aves.....	Sept. 15, 1911
VAN HORN ST.: Grand St. to Woodhaven Ave.....	Jan. 23, 1914
VAN NEST ST.: Roosevelt Ave. to L. I. R. R.....	Dec. 1, 1910
VOORHEES PLACE: Hunt St. to Roosevelt Ave.....	Aug. 16, 1917
WAINSCOTT AVE.: Beechhurst to Bell Aves.....	Dec. 9, 1913
WALDRON ST.: Alburtis Ave. to Rodman St.....	April 12, 1911
WATERS AVE.: Laurel Hill Blvd. to Debevoise Ave.....	Dec. 12, 1913
WEISSE AVE.: Myrtle Ave. to Varian St.....	Mar. 1, 1917
“ “ Edsall to Satterlee Aves.....	May 2, 1913
WESTSIDE ST.: Corona Ave. to Rodman St.....	June 30, 1910
WILSON AVE.: Old Bowery Bay Road to 20th Ave.....	Nov. 15, 1912
WOODHAVEN AVE.: Albert St. to Waterfront Development (awaiting improvement of Jamaica Bay).....	Dec. 13, 1912
“ “ Queens Blvd. to Jamaica Ave.....	Mar. 31, 1910
WOODSIDE AVE.: Middleburg to Anderson Aves.....	Nov. 3, 1910
“ “ Skillman to Jackson Aves.....	Jan. 13, 1916
YOUNG ST.: L. I. R. R. to Hunterspoint Ave.....	April 5, 1916
1ST ST.: Woodside Ave. to Matthews Place.....	Mar. 7, 1918
7TH ST.: Woolsey to Riker Aves.....	April 15, 1916
8TH ST.: West of West Ave.....	Sept. 20, 1905
14TH ST.: Arnot to Mitchell Aves.....	May 23, 1913
17TH ST.: Mitchell Ave. to Ziegler St. (filed by Board of Estimate and Apportionment Aug. 26, 1915).....	Oct. 25, 1906
19TH ST.: Sinclair Ave. to 119' south.....	Sept. 25, 1919
21ST ST.: Laurel Hill Blvd. to Roosevelt Ave.....	Jan. 13, 1916
BEACH 25TH ST.: Cornaga Ave. to Far Rockaway Blvd.....	Jan. 13, 1916

Passed Local Board

28TH ST.: Jackson to Astoria Aves.....	July 16, 1914
37TH ST.: Hunt St. to Berrian Ave.....	Mar. 24, 1911
40TH ST.: Roosevelt Ave. to Luke St.....	Sept. 25, 1919
41ST ST.: Berrian Ave. to Lake St.....	Mar. 24, 1911
42ND ST.: North Railroad Ave. to Flushing Bay.....	Jan. 20, 1911
43RD ST.: Polk to Roosevelt Aves.....	April 12, 1917
“ “ Polk Ave. to Sackett St.....	April 12, 1917
“ “ Jackson to Astoria Aves.....	Dec. 1, 1909
44TH ST.: Polk Ave. to Sackett St.....	April 12, 1917
“ “ Polk to Roosevelt Aves.....	April 12, 1917
“ “ Astoria Ave. to Sackett St.....	April 28, 1910
45TH ST.: Polk to Roosevelt Aves.....	April 12, 1917
“ “ Polk Ave. to Sackett St.....	April 12, 1917
BEACH 62ND ST.: Rockaway Beach Blvd. to Thursby St.....	Sept. 25, 1919
81ST ST.: Rockaway Blvd. to 95th Ave.....	May 15, 1919
82ND ST.: Rockaway Blvd. to 97th Ave.....	April 17, 1919
85TH DRIVE: 80th to 83rd Sts.....	July 26, 1917
BEACH 87TH ST.: Beach Channel Drive to Jamaica Bay (Sewer Easement).....	May 15, 1919
90TH AVE.: 75th St. to Elderts Lane.....	Sept. 4, 1919
96TH AVE.: 96th to 98th Sts.....	Jan. 27, 1916
98TH AVE.: Farmers Ave. to 181st St.....	May 25, 1916
99TH AVE.: Farmers Ave. to Hollis Ave.....	Oct. 26, 1916
123RD ST.: Metropolitan Ave. to Ashland St.....	May 28, 1915
130TH ST.: Metropolitan Ave. to Wisner Place.....	May 28, 1915
194TH ST.: Jamaica Ave. to 109th Ave. (Awaiting adoption of Map).....	Feb. 26, 1915
198TH ST.: Jamaica to Hollis Aves.....	Feb. 26, 1915
202ND ST.: Jamaica to Hollis Aves.....	Feb. 26, 1915

STREET OPENING MAPS APPROVED BY THE BOARD OF ESTIMATE AND
APPORTIONMENT

	Approved	Feet
25TH ST.: East River to Siegel Ave. (Rule and Damage).....	Jan. 17	3,600
SIGEL AVE.: Astoria Ave. to 12th St. (Rule and Damage).....	Jan. 17	2,300
RIKER AVE.: 12th to 25th Sts. (Rule and Damage).....	Jan. 17	800
PENELOPE ST.: Tremont Ave. to Queens Blvd. (Supplementary Rule and Damage).....	Jan. 17	3,650
NORTH JANE ST.: Vernon Ave. to Barge Canal Terminal (Rule and Damage).....	Feb. 21	360
MURRAY ST.: Northern Blvd. to 34th Ave. (Rule and Damage).....	Feb. 21	750
MURRAY LANE: Murray St. to 33rd Ave. (Rule and Damage).....	Feb. 21	450
BELL AVE.: Crocheron Ave. to Northern Blvd. (Rule and Damage).....	Feb. 21	2,100
WOODSIDE AVE.: Jackson Ave. to Broadway (Rule and Damage).....	Mar. 7	9,500
COOPER AVE.: Epsilon Place to Proctor St. (Amended Rule and Damage Map).....	Mar. 21	4,000
CENTRAL AVE.: Edsall to Woodhaven Aves. (Amended Rule and Damage).....	Mar. 21	5,000
LAUREL HILL AVE.: Skillman to Anable Aves. (Rule and Damage).....	May 16	2,600
223RD ST.: 110th to Hempstead Aves. (Rule and Damage).....	May 16	1,600
STILES PLACE: Jackson Ave. to Station Road (Rule and Damage).....	May 16	
STATION ROAD: Stiles Place to Cemetery Lane (Rule and Damage).....	May 16	450
HEISER ST.: Barnett to Greenpoint Aves. (Rule and Damage).....	May 16	2,540
ROCKAWAY BLVD.: Elderts Lane to Atlantic Ave. (Rule).....	July 11	1,850
123RD ST.: 13th to 12th Aves. (Rule and Damage).....	July 11	315
PEARTREE AVE.: Jackson Ave. to Pell St. (Rule and Damage).....	Oct. 31	1,100

	Approved	Feet
BARCLAY AVE.: Murray to 154th Sts. (Rule and Damage).....	Oct. 31	170
154TH ST.: Barclay to Sanford Aves. (Rule and Damage).....	Oct. 31	80
RIDGEWOOD AVE.: Property Line 110' east of Spruce St. to easterly right-of-way of L. I. R. R. (Rule and Damage).....	Oct. 31	175
SOUTH ST.: New York Ave. to Waltham St. (Rule and Damage).....	Nov. 28	2,300
95TH AVE.: 109th to 111th Sts.; 113th to 115th Sts. (Rule and Damage).....	Dec. 5	950
AGNES PLACE: Myrtle Ave. to L. I. R. R. (Rule and Damage).....	Nov. 28	1,400
BERTHA PLACE: Myrtle Ave. to Varian St. (Rule and Damage).....	Nov. 28	1,170
CONSTANTIA PLACE: Myrtle Ave. to Varian St. (Rule and Damage).....	Nov. 28	1,160
VARIAN ST.: Ford St. to Agnes Place (Rule and Damage).....	Nov. 28	500
WEISSE AVE.: Varian St. to L. I. R. R. (Rule and Damage).....	Nov. 28	180
SCHURZ AVE.: Astoria to Berrian Aves. (Rule and Damage).....	Dec. 5	4,650
TIEMANN AVE.: Lurting to Nichols Sts. (Rule and Damage).....	Dec. 5	509
37TH ST.: Banta to Hunt Sts. (Rule and Damage).....	Dec. 5	390
1ST ST.: Jackson Ave. to 21st St. (Am. Rule and Damage).....	Dec. 12	2,600
HAZEN ST.: Astoria to Berrian Aves. (Rule and Damage).....	Dec. 12	4,100
ROCKAWAY BLVD.: Elderts Lane to Atlantic Ave. (Damage).....	Dec. 12	
1ST ST.: Woodside Ave. to Mathews Place (Rule and Damage).....	Dec. 30	415

63,354

STREET OPENING SURVEYS COMPLETED

13TH ST.: 12th St. to Polk Ave.
POLK AVE.: 13th St. to Fisk Ave.
1ST ST.: Jackson to 21st Aves.
123RD ST.: 13th to 12th Aves.
LURTING ST.: 51st St. to Sanford Ave.
37TH ST.: Banta to Hunt Sts.
PEARTREE AVE.: Jackson Ave. to Pell St.
TIEMANN AVE.: Lurting to Nichols Sts.
FLUSHING RIVER: Delavall to Livingston Sts.
ROCKAWAY BLVD.: Elderts Lane to Atlantic Ave.
GRIFFITH AVE.: Metropolitan to Central Aves.
STEUBEN ST.: Proctor St. to Morton Ave.
HEMLOCK PLACE: Collins Ave. to Fresh Pond Road.
EVA PLACE: Flushing Ave. to Hemlock Place.
1ST ST.: Woodside Ave. to Mathews Place.
19TH AVE.: Broadway to Astoria Ave.
20TH AVE.: Jackson to Grand Aves.
MIDDLEBURG AVE.: Barnett to Woodside Aves.
43RD ST.: Ditmars to Burnside Aves.
89TH ST.: Spruce St. to L. I. R. R.
1ST ST.: Jackson to 21st Aves.
FREEHOLD ST.: Ulster to Baisley Aves.
TUCKERTON ST.: Blakely St. to Guinzburg Place.
153RD ST.: South Road to 107th Ave.
155TH ST.: South Road to 117th Ave.
114TH AVE.: Sutphin Blvd. to 167th St.
Screening and Sedimentation Plant at Neponsit.
BAISLEY BLVD.: Rockaway Blvd. to Byron St.
BYRON ST.: Baisley Blvd. to Cornell Basin.

STREET OPENING SURVEYS UNCOMPLETED

NORTH CONDUIT AVE.: Baisley Blvd. to 132nd St.
132ND ST.: North Conduit Ave. to Jamaica Disposal Plant.

RULE MAPS COMPLETED AND FORWARDED TO BOARD OF ESTIMATE AND
APPORTIONMENT FOR APPROVAL

	Forwarded	Feet
STILES PLACE: Jackson Ave. to Station Road.....	Mar. 11	
STATION ROAD: Stiles Place to Cemetery Lane.....	Mar. 11	450
HEISER ST.: Barnett to Greenpoint Aves.....	Mar. 12	2,540
LAUREL HILL AVE.: Skillman to Anable Aves.....	Mar. 31	2,600
223RD ST.: 110th to Hempstead Aves.....	Mar. 31	1,600
OLD FRESH POND ROAD (Closing): Fresh Pond Road to Mt. Olivet Ave.....	April 22	125
13TH ST.: 12th St. to Polk Ave.....	May 3	1,050
POLK AVE.: 13th St. to Fisk Ave.....	May 3	80
123RD ST.: 12th to 13th Aves.....	May 22	315
BARCLAY AVE.: Murray to 154th Sts.....	June 5	170
154TH ST.: Barclay to Sanford Aves.....	June 5	80
ROCKAWAY BLVD.: Elderts Lane to Atlantic Ave.....	June 13	1,850
95TH AVE.: 109th to 111th Sts.; 113th to 115th Sts.....	June 24	950
37TH ST.: Banta to Hunt Sts.....	June 30	390
PEARTREE AVE.: Jackson Ave. to Pell St.....	June 30	1,100
SOUTH ST.: New York Ave. to Waltham St.....	June 30	2,300
TIEMANN AVE.: Lurting to Nichols Sts.....	July 31	509
89TH AVE.: Spruce St. to L. I. R. R.....	Aug. 4	175
SCHURZ AVE.: Astoria to Berrian Aves.....	Aug. 28	4,650
1ST ST.: Jackson to 21st Aves.....	Sept. 30	2,600
Screening and Sedimentation Plant at Seaside Park.....	Nov. 28	
AGNES PLACE: Myrtle Ave. to L. I. R. R.....	Sept. 30	1,400
BERTHA PLACE: Myrtle Ave. to Varian St.....	Sept. 30	1,170
CONSTANTIA PLACE: Myrtle Ave. to Varian St.....	Sept. 30	1,160
VARIAN ST.: Ford St. to Agnes Place.....	Sept. 30	500
WEISSE AVE.: Varian St. to L. I. R. R.....	Sept. 30	180
*HAZEN ST.: Astoria to Berrian Aves.....	Sept. 30	4,100
1ST ST.: Woodside Ave. to Matthews Place.....	Nov. 7	415
TRAUTWINE ST.: Fisk Ave. to Ramsey St.....	Nov. 26	455
LURTING ST.: 51st St. to Sanford Ave.....	Dec. 8	6,200
*SENECA AVE : Borough Line to Willoughby Ave.;		
Summerfield St. to St. Felix Ave.....	Dec. 31	550
STONE ST.: Greenpoint Ave. to Queens Blvd.....	Dec. 31	260
Skillman to Barnett Aves.....	Dec. 31	750
DICKSON ST.: Skillman to Barnett Aves.....	Dec. 31	1,430
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*Amended proceeding.		42,104

DRAFT DAMAGE MAPS COMPLETED AND FORWARDED TO BOARD OF ESTIMATE
AND APPORTIONMENT FOR APPROVAL

	Forwarded	Feet
STILES PLACE: Jackson Ave. to Station Road.....	Mar. 11	
STATION ROAD: Stiles Place to Cemetery Lane.....	Mar. 11	450
HEISER ST.: Barnett to Greenpoint Aves.....	Mar. 12	2,540
LAUREL HILL AVE.: Skillman to Anable Aves.....	Mar. 31	2,600
223RD ST.: 110th to Hempstead Aves.....	Mar. 31	1,600
OLD FRESH POND ROAD (Closing): Fresh Pond Road to Mt. Olivet Ave.....	April 22	125
13TH ST.: 12th St. to Polk Ave.....	Sept. 30	1,050

	Forwarded	Feet
POLK AVE.: 13th St. to Fisk Ave.....	Sept. 30	80
BARCLAY AVE.: Murray to 154th Sts.....	June 5	170
154TH ST.: Barclay to Sanford Aves.....	June 5	80
ROCKAWAY BLVD.: Elderts Lane to Atlantic Av	Sept. 30	1,850
95TH AVE.: 109th to 111th Sts.;		
113th to 115th Sts.....	June 24	950
37TH ST.: Banta to Hunt Sts.....	June 30	390
PEARTREE AVE.: Jackson Ave. to Pell St.....	June 30	1,100
SOUTH ST.: New York Ave. to Waltham St.....	June 30	2,300
TIEMANN AVE.: Lurting to Nichols Sts.....	July 31	509
89TH AVE.: Spruce St. to L. I. R. R.....	Aug. 30	175
SCHURZ AVE.: Astoria to Berrian Aves.....	Aug. 28	4,650
1ST ST.: Jackson to 21st Aves.....	Sept. 30	2,600
AGNES PLACE: Myrtle Ave. to L. I. R. R.....	Sept. 30	1,400
BERTHA PLACE: Myrtle Ave. to Varian St.....	Sept. 30	1,170
CONSTANTIA PLACE: Myrtle Ave. to Varian St.....	Sept. 30	1,160
VARIAN ST.: Ford St. to Agnes Place.....	Sept. 30	500
WEISSE AVE.: Varian St. to L. I. R. R.....	Sept. 30	180
*HAZEN ST.: Astoria to Berrian Aves.....	Sept. 30	4,100
1ST ST.: Woodside Ave. to Matthews Place.....	Nov. 7	415
TRAUTWINE ST.: Fisk Ave. to Ramsey St.....	Nov. 26	455
LURTING ST.: 51st St. to Sanford Ave.....	Dec. 8	6,200
Screening and Sedimentation Plant Area at Seaside.....	Nov. 28	
*SENECA AVE.: Borough Line to Willoughby Ave.;		
Summerfield St. to St. Felix Ave.....	Dec. 31	550
STONE ST.: Greenpoint Ave. to Queens Blvd.....	Dec. 31	260
Skillman to Barnett Aves.....	Dec. 31	750
DICKSON ST.: Skillman to Barnett Aves.....	Dec. 31	1,430
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* Amended Proceeding.		42,104

FINAL DAMAGE MAPS COMPLETED AND FORWARDED TO CORPORATION COUNSEL

	Forwarded	Feet
FIRTH AVE.: Grand St. to Juniper Ave.....	Jan. 22	4,700
ARCHER ST.: Van Wyck Ave. to Sutphin Blvd.....	Jan. 22	2,000
PROCTOR ST.: Metropolitan to Myrtle Aves.....	Jan. 22	3,835
WOODSIDE AVE.: Jackson Ave. to Broadway.....	May 9	9,500
COOPER AVE.: Epsilon Place to Proctor St.....	May 17	4,000
CENTRAL AVE.: Edsall to Woodhaven Aves.....	May 17	5,000
223RD ST.: 110th to Hempstead Aves.....	June 30	1,600
BOERUM AVE.: Jackson Ave. to L. I. R. R.....	June 30	7,900
STONE ST.: Skillman to Greenpoint Aves.....	June 30	750
FOSTER AVE.: Skillman to Greenpoint Aves.....	June 30	5,500
RIKER AVE.: 12th to 25th Sts.....	June 30	800
SIGEL AVE.: Astoria Ave. to 12th St.....	June 30	2,300
25TH ST.: Sigel Ave. to East River.....	June 30	3,600
BELL AVE.: 35th Ave. to Northern Blvd.....	Sept. 30	2,100
*HAZEN ST.: Astoria to Berrian Aves.....	Oct. 10	4,100
*HOOD ST.: Hazen St. to Ditmars Ave.....	Oct. 10	150
BLISS ST.: Skillman to Borden Aves.....	Oct. 25	3,500
CAROLIN ST.: Anable to Borden Aves.;		
Skillman to Greenpoint Aves.....	Oct. 25	2,500
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* Amended Map.		63,835

BENEFIT MAPS COMPLETED AND FORWARDED TO CORPORATION COUNSEL

	Forwarded	Feet
FIRTH AVE.: Grand St. to Juniper Ave.....	Jan. 22	4,700
ARCHER ST.: Van Wyck Ave. to Sutphin Road.....	Jan. 22	2,000
PROCTOR ST.: Metropolitan to Myrtle Aves.....	Jan. 22	3,835
*VERMONT AVE.: Highland Ave. to Angle south of Cypress Ave.....	Mar. 13	3,700
CROSBY AVE.: Vermont Ave. to Bulwer Place.....	Mar. 13	775
WOODSIDE AVE.: Jackson Ave. to Broadway.....	May 9	9,500
COOPER AVE.: Epsilon Place to Proctor St.....	May 17	4,000
CENTRAL AVE.: Edsall to Woodhaven Aves.....	May 17	5,000
223RD ST.: 110th to Hempstead Aves.....	June 30	1,600
BOERUM AVE.: Jackson Ave. to L. I. R. R.....	June 30	7,900
STONE ST.: Skillman to Greenpoint Aves.....	June 30	750
FOSTER AVE.: Skillman to Greenpoint Aves.....	June 30	5,500
RIKER AVE.: 12th to 25th Sts.....	June 30	800
SIGEL AVE.: Astoria Ave. to 12th St.....	June 30	2,300
25TH ST.: Sigel Ave. to East River.....	June 30	3,600
BELL AVE.: 35th Ave. to Northern Blvd.....	Sept. 30	2,100
*HAZEN ST.: Astoria to Berrian Aves.....	Oct. 10	4,100
*HOOD ST.: Hazen St. to Ditmars Ave.....	Oct. 10	150
BLISS ST.: Skillman to Borden Aves.....	Oct. 25	3,500
CAROLIN ST.: Anable to Borden Aves; Skillman to Greenpoint Aves.....	Oct. 25	2,500
		<hr/> 59,360

STREET OPENING MAPS BEFORE THE BOARD OF ESTIMATE AND APPORTIONMENT PENDING APPROVAL

BLISS ST.: Skillman to Borden Aves. (Rule and Damage).
 CAROLIN ST.: Skillman to Greenpoint Aves;
 Anable to Borden Aves. (Rule and Damage).
 SENECA AVE.: Borough Line to Willoughby Ave. (Amended Rule and Damage).
 BROADWAY: Newtown Road to Queens Blvd. (Rule and Damage).
 FIRTH AVE.: Grand St. to Juniper Ave. (Rule).
 BURROUGH AVE.: Borden to Woodside Aves. (Supplementary Rule).
 OLD FRESH POND ROAD (Closing): Fresh Pond Road to Mt. Olivet Ave. (Rule and
 Damage).
 13TH ST.: 12 St. to Polk Ave. (Rule and Damage).
 POLK AVE.: 13th St. to Fisk Ave. (Rule and Damage).
 TRAUTWINE ST.: Fisk Ave. to Ramsey St. (Rule and Damage).
 Screening and Sedimentation Area at Seaside Park (Rule and Damage).
 LURTING ST.: 51st St. to Sanford Ave. (Rule and Damage).
 STONE ST.: Greenpoint Ave. to Queens Blvd.;
 Skillman to Barnett Aves. (Rule and Damage).
 DICKSON ST.: Skillman to Barnett Aves. (Rule and Damage).

STATUS OF STREET OPENING MAPS NOT COMPLETED

Proceeding	Limits	Length in Feet	PERCENTAGE COMPLETED				Benefit
			N.S.—Not Started. C.T.—Completed and Transmitted. C.—Completed but not Transmitted.				
			Rule	Draft Damage	Final Damage		
*COOPER AVE.....	Epsilon Place to Proctor St.....	4,000	C.T.	C.T.	C.	C.	
*CENTRAL AVE.....	Edsall to Woodhaven Aves.....	5,000	"	"	"	"	
ALDEN AVE.....	L. I. R. to Pansy St.....	2,500	N.S.	N.S.	N.S.	N.S.	
THEW AVE.....	Penelope St. to Nassau Ave.....	6,000	"	"	"	"	
MAURE AVE.....	Metropolitan Ave. to Wisner Place; Atlantic to Liberty Aves.....	4,800	"	"	"	"	
FOSTER AVE.....	Skillman to Greenpoint Aves.....	5,500	C.T.	C.T.	20	20	
STONE ST.....	Skillman to Greenpoint Aves.....	760	"	"	20	20	
BLISS ST.....	Skillman to Borden Aves.....	3,500	"	"	C.	C.	
CAROLIN ST.....	Unable to Borden Aves.; Skillman to Greenpoint Aves.....	3,500	"	"	"	"	
BOERUM AVE.....	Jackson Ave. to L. I. R. (Whitestone Div.).....	7,900	"	"	2	2	
BROADWAY.....	Newtown Road to Queens Blvd.....	12,000	"	"	N.S.	N.S.	
WOODSIDE AVE.....	Jackson Ave. to Broadway.....	9,500	"	"	C.	C.	
ARMAND PLACE.....	Walter St. to Charlotte Place.....	440	C.	C.	N.S.	N.S.	
CHARLOTTE PLACE.....	Dill Place to Alden Ave.....	2,000	C.	C.	"	"	
DILL PLACE.....	Myrtle to Cooper Aves.....	1,390	"	"	"	"	
FOREST AVE.....	Walter to Summerfield Sts.....	500	"	"	"	"	
MILLWOOD ST.....	Walter to Slocum Sts.....	1,400	"	"	"	"	
WALTER ST.....	Cooper to Millwood Aves.....	11,300	"	"	"	"	
SYLVAN ST.....	Millwood to St. Felix Aves.....	420	"	"	"	"	
FAIRBANKS AVE.....	Broadway to Baxter Ave.....	1,400	N.S.	N.S.	N.S.	N.S.	
*25TH ST.....	Baxter to Roosevelt Aves.....	550	"	"	"	"	
BAXTER AVE.....	Fairbanks Ave. to 25th St.....	200	"	"	"	"	

* Amended Map.

STATUS OF STREET OPENING MAPS NOT COMPLETED—Continued

Proceeding	Limits	Length in Feet	PERCENTAGE COMPLETED			
			N.S.—Not Started.			
			C.T.—Completed and Transmitted.			
Rule	Draft	Final	Benefit	Damage	Damage	Benefit
AGNES PLACE.....	Myrtle Ave. to L. I. R. R.....	1,400	C.T.	C.T.	"	"
BERTHA PLACE.....	Myrtle Ave. to Varian St.....	1,170	"	"	"	"
CONSTANTIA PLACE.....	Myrtle Ave. to Varian St.....	1,160	"	"	"	"
VARIAN AVE.....	Ford St. to Agnes Place.....	500	"	"	"	"
WEISSE AVE.....	Varian St. to L. I. R. R.....	180	"	"	"	"
13TH ST.....	12th St. to Polk Ave.....	1,050	"	"	"	"
POLK AVE.....	13th St. to Fisk Ave.....	80	"	"	"	"
BARCLAY AVE.....	Murray to 154th (14th) Sts.....	170	"	"	"	"
154TH ST.....	Barclay to Sanford Aves.....	80	"	"	"	"
95TH AVE.....	109th to 111th Sts., and 113th to 115th Sts.....	950	"	"	N.S.	N.S.
FLUSHING RIVER.....	Harper Ave. to its south terminus near 69th Ave.....	16,400	10	10	"	"
89TH AVE.....	West Property Line to L. I. R. R. to 123rd St.....	175	C.T.	C.T.	10	10
SOUTH ST.....	New York Ave. to Waltham St.....	2,300	"	"	20	20
40TH AVE.;						
ROOSEVELT AVE.....	Main St. to angle east of Willets Point Blvd.....	1,200	"	N.S.	N.S.	N.S.
CALAMUS AVE.....	Maurice Ave. to Grand St.....	3,600	"	C.T.	C.	C.
DIVISION AVE.....	Grand St. to Caldwell Ave.....	1,683	"	"	30	95
LEWIS AVE.....	Division Ave. to Bloomfield St.....	320	"	"	30	95
BLOOMFIELD ST.....	Caldwell Ave. to Bowne Place.....	460	"	"	30	95
ROCKAWAY BLVD.....	Elderts Lane to Atlantic Ave.....	1,850	C.T.	C.T.	N.S.	N.S.
37TH ST.....	Banta to Hunt Sts.....	390	"	"	"	"
TIEMANN AVE.....	Lurting to Nicholls Sts.....	509	95	95	"	"
PEARTREE AVE.....	Jackson Ave. to Pell St.....	1,100	C.T.	C.T.	10	10
BOWNE PLACE.....	Bloomfield to Sibley Sts.....	170	"	"	30	95

STATUS OF STREET OPENING MAPS NOT COMPLETED—Continued

Proceeding	Limits	Length in Feet	PERCENTAGE COMPLETED			
			N.S.—Not Started. C.T.—Completed and Transmitted. C.—Completed but not Transmitted.			
			Rule	Draft Damage	Final Damage	Benefit
SIBLEY PLACE	Bowne Place to Woodhaven Ave.	868	"	"	30	95
PHELPS AVE.	Between adjoining sections of Sibley St.	130	"	"	30	95
TRAUTWINE ST.	Fiske Ave. to Ramsey St.	455	"	"	N.S.	N.S.
HEISER ST.	Barnett to Greenpoint Aves.	2,540	"	"	95	95
BELL AVE.	35th Ave. to Northern Blvd.	2,100	"	"	C.T.	C.T.
STONE ST.	Greenpoint Ave. to Queens Blvd.	260	95	95	N.S.	N.S.
DICKSON ST.	Skillman to Greenpoint Aves.	750	"	"	"	"
LAURELL HILL AVE.	Skillman to Barnett Aves.	1,430	"	"	"	"
BORROUGH AVE.	Skillman to Anable Aves.	2,600	C.T.	C.T.	50	50
NORTH JANE ST.	(Closing Map) Sinclair Ave. to 184.30' south, Vernon Ave. to property acquired by the State for canal terminal.	184	"	"	50	50
MURRAY ST.	Northern Blvd. to 34th Ave.	360	"	"	50	50
MURRAY LANE.	Murray St. to 33rd Ave.	750	"	"	10	10
NAGY ST. (Supplemental).	Metropolitan to Jansen Aves.;	450	"	"	10	10
UNNAMED ST.	Nassau Ave. to Grand St.	6,635	C.T.	C.T.	C.	C.
PUBLIC PARK.	(Woodside Ave.) Foster Ave. to Stone St.	150	"	"	N.S.	N.S.
"	Bounded by Foster Ave.; Woodside Ave.	...	"	"	"	"
"	" " " Greenpoint Ave.	...	"	"	"	"
*SENECA AVE.	Brooklyn Borough Line to Willoughby Ave.;	...	"	"	"	"
SCHURZ AVE.	Summerfield St. to St. Felix Ave.	550	"	"	99	99
123RD ST.	Astoria to Berrian Aves.	4,650	"	"	N.S.	N.S.
171ST ST.	12th to 13th Aves.	315	"	"	"	"
	No. Blvd. to Station Road					

* Amended Map.

STATUS OF STREET OPENING MAPS NOT COMPLETED—Continued

Proceeding	Limits	Length in Feet	PERCENTAGE COMPLETED			
			N.S.—Not Started. C.T.—Completed and Transmitted. C.—Completed but not Transmitted.			
			Rule	Draft Damage	Final Damage	Benefit
STATION ROAD.....	171st St. to Cemetery Lane.....	450	"	"	90	90
TUCKERTON ST.....	Blakely St. to Guinsburg Place.....	850	N.S.	N.S.	N.S.	N.S.
153RD ST.....	South Road to 107th Ave.....	300	C.T.	C.T.	"	"
155TH ST.....	South Road to 117th Ave.....	5,900	"	"	"	"
114TH AVE.....	Sutphin Blvd. to 167th St.....	3,300	N.S.	N.S.	N.S.	N.S.
FREEHOLD ST.....	Ulster to Baisley Aves.....	4,500	"	"	"	"
PROPERTY TO BE ACQUIR- ED FOR SCREENING AND SEDIMENTATION PLANT.	Bounded by Seaside Park, Jamaica Bay, Beach 149th St., and south line of Newport Ave.....	630	C.T.	C.T.	"	"
BAISLEY BLVD.....	Broadway Blvd. to Byron St.....	3,800	N.S.	N.S.	"	"
BYRON ST.....	Baisley Blvd. to north line of Cornell Basin.....	1,400	"	"	"	"
NO. CONDUIT AVE.....	Baisley Blvd. to 132nd St.....	5,400	"	"	"	"
132ND ST.....	No. Conduit Ave. to north line of Jamaica Dis. Plant.....	600	"	"	"	"
1ST ST.....	Jackson to 21st Aves.....	2,600	C.T.	C.T.	N.S.	N.S.
FITTING ST.....	Barnett to Nelson Aves.....	5,500	N.S.	N.S.	"	"
HAZEN ST.....	Astoria to Berrian Aves.....	4,100	C.T.	C.T.	C.T.	C.T.
19TH AVE.....	Broadway to Astoria Ave. (subject to rights of New York Connecting Railroad).....	4,750	N.S.	N.S.	N.S.	N.S.
20TH AVE.....	Jackson to Grand Aves.....	2,700	"	"	"	"
LURTING ST.....	51st St. to Junction of Maple and Sanford Aves.....	6,200	C.T.	C.T.	"	"
43RD ST.....	Dimars to Burnside Aves.....	3,850	N.S.	N.S.	"	"
ASTORIA AVE. WIDENING	For about 50 feet at 43rd St.....	50	"	"	"	"
BORDEN AVE.....	Laurel Hill Ave. to Grand St.....	2,800	5	5	"	"
1ST ST.....	Woodside Ave. to Mathews Place.....	415	C.T.	C.T.	"	"

* Amended Map.

ALTERATION OF ZONE MAPS APPROVED BY BOARD OF ESTIMATE AND APPOR-
TIONMENT

Approved

NEWARK ST.: South to Mandsley Sts. (Residence to Unrestricted) 32C.....	Mar. 7
HANCOCK PLACE: Queens Blvd. to Greenpoint Ave. (Business to Unrestricted) 36C.....	June 20
BERLIN AVE.: Columbia to Borden Aves.;	
BORDEN AVE.: Berlin Ave. to 100' east of Gosman Ave.;	
TOWNSEND AVE.: 100' east of Clifton to Borden Aves.;	
JONES AVE.: 100' east of Clifton to Berlin Aves.;	
WATERS AVE.: 100' east of Clifton to Berlin Aves.;	
JOY AVE.: 100' east of Clifton to Berlin Aves.;	
DEBEVOISE AVE.: Columbine to Borden Aves. (Changed to Unrestricted) 38C..	Sept. 26
JAMAICA and FARMERS AVES.: Business to Unrestricted (26C).....	Oct. 3
MEDFORD ST.: L. I. R. R. to 100' north of South St.;	
NEWARK ST.: L. I. R. R. to 100' north of South St.;	
UNION HALL ST.: L. I. R. R. to 100' north of South St.;	
DALE PLACE: Union Hall to Newark Sts.;	
LIBERTY AVE.: Medford St. to New York Ave.;	
SOUTH ST.: East Line of Carlisle to Newark Sts.;	
SOUTH ST. (north side): Newark St. to 100' east of New York Ave.;	
NEW YORK AVE.: Jamaica Ave. to South St. (From Unrestricted to Residence and Business) 42C.....	July 18

PROPERTY MAPS APPROVED BY BOARD OF ESTIMATE AND APPORTIONMENT AND
FILED AT THIS OFFICE

Filed

HAWTREE PARK.....	Nov. 19
BAYSIDE-FLUSHING, Broadway, Bayside.....	Mar. 5
ADDISLEIGH, ST. ALBANS.....	Aug. 7
HILLSIDE GARDENS.....	Aug. 21
93 LOTS BELONGING TO FERDINAND KAISER.....	July 25
KEW FOREST SECTION OF KEW GARDENS.....	Oct. 17
89TH AVE.....	Sept. 23
ADDISLEIGH, Block 7 and part of Block 8.....	Sept. 23
159 LOTS AT WOODHAVEN.....	Nov. 19
QUEENS GROVE.....	Dec. 18
PROPERTY BELONGING TO SIMONSON REALTY COMPANY.....	Oct. 24
147TH AVE. SQUARE.....	Nov. 19
PROPERTY BELONGING TO VALENTINE KLEIN.....	Nov. 19
RODMAN MANOR.....	Nov. 8
CORONA TERRACE, SUB-DIVISION NO. 2.....	Nov. 21
Amended Map of BELLAIRE PARK.....	Nov. 21

CITY STREETS BY DEDICATION ACCORDING TO OPINIONS RENDERED BY
CORPORATION COUNSEL

	Opinion	Feet
ALONZO PLACE: Beach 9th to Virginia Sts.....	Dec. 24/18	420
AUGUSTINA PLACE: Wheatley to Beach 12th Sts.....	Dec. 28/18	550
BAYPORT PLACE: Augustina Place to Dinsmore St.....	Jan. 10	900
BEACH CHANNEL DRIVE: Beach 130th St. to 100' west of Berch 141st St.....	July 30	2,930
BEVERLEY ROAD: Shore Road to Douglas Road.....	Dec. 24/18	2,230
BOLTON PLACE: Beach 9th to Virginia Sts.....	Dec. 24/18	500

	Opinion	Feet
BOULEVARD: Mott Ave. to Borough Line.....	Jan. 30	3,320
BRENTON AVE.: Plainfield St. to Hillside Ave.....	Jan. 24	870
BROOKHAVEN AVE.: Beach 19th to Beach 20th Sts.....	Jan. 10	380
CHANNING PLACE: Larkfield Place to Beach 9th St.....	Dec. 19/18	670
CLAVERLY PLACE: 34th to 35th Aves.....	Dec. 24/18	330
CORNAGA AVE.: Empire Ave. to Reads Lane.....	Dec. 24/18	700
DINSMORE ST.: Beach 12th St. to Foam Place.....	Dec. 28/18	900
EVELYN ST.: Azalea St. to Mt. Olivet Ave.....	June 13	440
FABER PLACE: Granada Place to Borough Line.....	Dec. 13	1,000
FAR ROCKAWAY BLVD.: Beach 32nd St. to Norton Creek.....	Jan. 30	400
FOAM PLACE: Boulevard to Dinsmore St.....	Dec. 24/18	450
FORBES ST.: Oak to Queens Aves.....	Aug. 5	1,325
GEROLD ST.: Oak to Queens Aves.....	Aug. 5	1,325
GIPSON ST.: Mott Ave. to Borough Line.....	Dec. 24/18	1,500
GREENPORT ROAD: Beach 19th St. to Cornaga Ave.....	Jan. 10	2,000
HAYDOCK ST.: Oak to Queens Aves.....	Aug. 5	1,325
HUDE ST.: Boulevard to Brunswick Ave.....	Dec. 24/18	400
KISSENA ROAD: 87th Ave. to 175' north of 85th Road.....	Dec. 2/18	1,200
LARCH AVE.: Parsons Ave. to Fresh Meadow Road.....	Aug. 14	2,350
LARKFIELD PLACE: Boulevard to Cornaga Ave.....	Dec. 10/18	1,500
LAUREL HILL AVE.: Skillman Ave. to 300' south.....	Jan. 30	300
LONSDALE AVE.: Crocheron Ave. to 200' south of 29th Ave.....	Jan. 31	1,720
NARCISSUS ST.: Smart to Parsons Aves.....	Aug. 6	450
NEW HAVEN AVE.: Greenport Road to Delancey St.....	Jan. 4	400
NEWPORT AVE.: Beach 149th St. to Adirondack Blvd.....	Aug. 14	1,725
OAK AVE.: Elton St. to Fresh Meadow Road.....	Nov. 5/18	1,930
ORONTES ST.: Corona Ave. to Xenia St.....	July 18	1,500
PEARTREE AVE.: Pell Ave. to Kingsland Ave.....	June 2	1,800
QUEENS AVE.: Kissena Road to Parsons Ave.....	Nov. 5/18	1,985
QUINCE ST.: Kissena Road to Oak Ave.....	Aug. 12	2,010
RAMSEY ST.: Calamus Ave. to 475' south of Stoutenburg St.....	Jan. 2	930
ROACH PLACE: L. I. R. R. to Corona Ave.....	Aug. 5	575
ROSE ST.: Kissena Road to Oak Ave.....	Aug. 12	2,270
SAGE ST.: Boulevard to Empire Ave.....	Jan. 29	1,350
SCRANTON ST.: Fletcher to Evers Aves.....	June 20	440
SOUTH JANE ST.: Jackson to Hunter Aves.....	June 13	200
VARICK ST.: Corona Ave. to 250' east of Tieman Ave.....	July 18	800
VIETOR PLACE: Broadway to Judge St.....	May 7	720
VIRGINIA ST.: Boulevard to Bolton Place.....	Dec. 24/18	700
8TH AVE.: 3rd to 14th Sts.....	Feb. 1	3,000
BEACH 9TH ST.: Boulevard to Empire Ave.....	Dec. 24/18	1,900
BEACH 12TH ST.: L. I. R. R. to Dinsmore St.....	Feb. 28	1,870
15TH ST.: 146th Place to 225' westerly.....	June 20	210
BEACH 17TH ST.: Brookhaven Ave. to Atlantic Ocean.....	Jan. 30	1,740
19TH AVE.: Murray St. to Cross Island Blvd.....	Nov. 10/18	1,230
BEACH 20TH ST.: Nott Ave. to South St.....	Jan. 10	3,270
BEACH 22ND ST.: Elk Place to Far Rockaway Blvd.....	Jan. 30	1,250
34TH AVE.: 250th Ave. to City Line.....	Dec. 19/18	1,250
35TH AVE.: 237th to 240th Sts.....	Jan. 31	640
BEACH 39TH ST.: Rockaway Beach Blvd. to Atlantic Ocean.....	Jan. 10	600
BEACH 40TH ST.: Rockaway Beach Blvd. to Atlantic Ocean.....	Jan. 10	530
BEACH 43RD ST.: Rockaway Beach Blvd. to Atlantic Ocean.....	Jan. 10	530
BEACH 44TH ST.: Rockaway Beach Blvd. to Atlantic Ocean.....	Jan. 10	550
BEACH 45TH ST.: Rockaway Beach Blvd. to Atlantic Ocean.....	Jan. 10	640
BEACH 62ND ST.: L. I. R. R. to Atlantic Ocean.....	Jan. 10	1,450

	Opinion	Feet
BEACH 74TH ST.: L. I. R. R. to Atlantic Ocean.....	Dec. 28/18	1,520
75TH ST.: Jamaica to 93rd Aves.....	Nov. 25/18	2,530
76TH ST.: Jerome to Atlantic Aves.....	Dec. 13/18	1,510
85TH AVE.: Forest Parkway to 85th St.....	Nov. 25/18	555
85TH DRIVE: 148th St. to Parsons Ave.....	Dec. 24/18	1,320
85TH ROAD: 148th St. to Kissena Road.....	Dec. 2/18	340
86TH AVE.: 148th St. to Parsons Ave.....	Dec. 24/18	1,450
87TH AVE.: 148th St. to Parsons Ave.....	Dec. 2/18	1,640
87TH AVE.: Queens Blvd. to 143rd Ave.....	Oct. 29	970
90TH AVE.: 76th to 78th Sts.....	June 13	450
96TH ST.: Liberty to 103rd Aves.....	Dec. 13/18	685
BEACH 107TH ST.: Rockaway Beach Blvd. to 551' south.....	July 18	551
BEACH 108TH ST.: Rockaway Beach Blvd. to 575' south.....	July 18	575
BEACH 109TH ST.: Rockaway Beach Blvd. to 580' south.....	July 18	580
BEACH 147TH ST.: Jamaica Bay to Atlantic Ocean.....	Aug. 12	2,115
148TH ST.: 87th Ave. to 175' north of 85th Road.....	Oct. 29	1,260
149TH ST.: 85th Drive to 85th Road.....	Dec. 2/18	400
150TH ST.: Jamaica Ave. to Sutphin Blvd.....	Jan. 30	3,150
151ST ST.: 85th Drive to 680' north.....	Nov. 25	680
152ND ST.: 85th Drive to 680' north.....	Oct. 29	700
164TH ST.: 84th Drive to 115' north.....	Oct. 16	115
182ND PLACE: 91st Ave. to Jamaica Bay.....	June 30	400
205TH ST.: 43rd Ave. to L. I. R. R.....	Jan. 10	1,100
206TH ST.: 43rd to 42nd Aves.....	Jan. 10	550
220TH PLACE: 33rd to Jackson Aves.....	Dec. 24/18	400
Total.....		97,926

DIVISION OF SUBSTRUCTURES AND FRANCHISES

MAPS BEFORE BOARD OF ESTIMATE AND APPORTIONMENT PENDING APPROVAL

Map showing a standard location of substructures for all streets in the Borough of Queens having a roadway width of less than 40 feet. Dated March 17, 1915. T.B. 624.

Map showing a standard location of substructures for all streets in the Borough of Queens having a roadway width of 40 feet or more. Dated March 17, 1915. T.B. 624.

FIELD CORPS:

Angles turned.....	48
Features located.....	1,217
Linear feet of traverse.....	34,375
" " " curb located.....	34,690
" " " trolley tracks located.....	12,200
" " " taping.....	122,850
" " " levels.....	44,310
" " " building line.....	24,500
Sewer manholes located.....	135
" receiving basins located.....	59
Telephone boxes located.....	17
Gas valve boxes located.....	106
Water boxes located.....	108
Electric light and power boxes located.....	96
Street railway boxes located.....	7
Poles, hydrants, etc., located.....	689

Boxes, sewer manholes, etc., measured in detail.....	203
Street openings in which substructure locations were made.....	5,949
Inspections at which data was procured.....	3,203
" " " no data was procured.....	2,208
Total inspections.....	5,411
Linear feet of gas mains located.....	147,294
" " " water mains located.....	65,107
" " " electric power duct located.....	8,417
" " " telephone duct located.....	12,344
" " " sewer pipe located.....	393
" " " miscellaneous pipe located.....	117
Total linear feet of substructures located in street openings.....	233,672
Surface location survey on 40 sheets covering 5.0 miles of streets.	
Detail measurements on 55 sheets, covering 14.0 miles of streets.	
Levels run on 52 sheets covering 10 miles of streets.	
Correction and addition survey covering 2.5 miles of streets.	
Special surveys covering 5.0 miles of streets.	
Located 44.3 miles of substructures exposed in street openings in the 1st, 2nd, 3rd, 4th and 5th Wards.	

OFFICE CORPS:

Plotting topography, detail measurements and street opening surveys on 9 record maps.

Colored one Record Map.

Plotting four special surveys.

Computing coordinates for five Record Maps.

Revising standard plan of substructure installations for less than and greater than 40.0 foot roadways.

Designing new standard plan for substructure installations for 33.3 and 40.0 foot roadways.

Collected all available boring and subsoil data.

Indexing and filing surface location surveys, boring data, sewer and highway maps, franchise data and private company information.

Subdividing in Record Map sheets Final Sections Nos. 40, 43, 60 and 63.

Subdividing into Final Sections 400 foot maps of Hollis, Jamaica, Aqueduct, Black Stump, Flushing, Idlewild and Bayside.

Subdividing Williams Map of Queens Borough into Final Sections.

Furnished 57,240.0 feet of subsoil information to City Departments, Public Service Corporations, and Private interests.

Approved 370 street opening permits for installation of 23.5 miles of gas mains, 10.7 miles of water mains, 5.3 miles of telephone duct and 4.7 miles of electric light and power duct in accordance with our standard substructure plan.

Approved 1,128 permits for miscellaneous installations and repairs.

MISCELLANEOUS

MAPS FILED WITH THIS BUREAU:

Final Sections (Atlas Sheets).....	2
Grade Charts.....	..
Special Final Maps.....	2
Alteration Maps.....	26
Draft Damage Maps (Original).....	36
Draft Damage Maps (Tracings).....	36
Profile Maps.....	
Damage Estimates.....	30

Guaranteed Maps.....	2,647
Surveys for Corporation Counsel.....	4
Filed Maps.....	49
Tax Maps.....	..
Miscellaneous.....	18
Zone Maps.....	10
Conduit Maps.....	..
Old Road Maps.....	..
Pier and Bulkhead Maps.....	..
Railroad Maps.....	..
Sewer Maps.....	..
Property Maps.....	17
House Numbering Maps.....	2

COPIED AT COUNTY CLERK'S OFFICE:

Sales Maps.....	35
Guaranteed Surveys.....	955
Deed Descriptions.....	481
Searches.....	167
Investigations.....	59

BLUEPRINTS MADE:

For this Bureau and other City Departments.....	3,719
For Long Island Railroad.....	11
For Lawyers Title Insurance and Trust Company.....	16
For United Title Company.....	7
For Title Guarantee and Trust Company.....	63
For Civil Engineers and City Surveyors.....	206

BUREAU OF BUILDINGS

PLANS AND APPLICATIONS FOR NEW BUILDINGS FILED AND ACTED UPON DURING 1919

No. of Buildings	Classification	Estimated Cost
5,209	Frame Dwellings	\$19,987,479
551	Brick Dwellings	3,774,480
48	Frame Stores and Dwellings	270,050
62	Brick Stores and Dwellings	408,200
2	Frame Tenements	10,000
36	Brick Tenements	2,739,500
	Frame Stores and Tenements	
7	Brick Stores and Tenements	137,000
19	Public Buildings (Amusements)	1,010,000
	Public Buildings (Municipal)	
108	Manufactories and Workshops	12,060,900
9	Churches	184,000
3	Schools	458,000
1	Hotel and Boarding Houses	500,000
	Hospitals	
41	Storage Warehouses, etc.	1,151,600
17	Office Buildings	353,900
2,235	Garages	2,796,077
9	Stables	6,750
553	Other Frame Structures	174,551
8,910	Total	\$46,022,687

PLANS AND APPLICATIONS FOR ALTERATIONS FILED AND ACTED UPON DURING 1919

No. of Buildings	Classification	Estimated Cost
2,586	Frame Dwellings.....	\$612,285
50	Brick Dwellings.....	120,875
271	Frame Stores and Dwellings.....	147,882
131	Brick Stores and Dwellings.....	233,428
30	Frame Tenements.....	15,460
22	Brick Tenements.....	36,920
16	Frame Stores and Tenements.....	14,915
8	Brick Stores and Tenements.....	7,425
28	Public Buildings (Amusements).....	45,850
1	Public Buildings (Municipal).....	500
146	Manufactories.....	1,434,972
18	Churches.....	48,650
6	Schools.....	12,064
17	Hotels.....	32,790
1	Hospital.....	5,000
29	Storage Warehouse.....	346,110
22	Office Buildings.....	81,185
123	Garages.....	202,425
26	Stables.....	25,475
198	Other Frame Structures.....	60,786
3,729	Totals.....	\$3,488,001

RECORD OF INSPECTIONS

Construction.....	69,760
Plumbing.....	33,349
Plastering.....	8,284
Elevator.....	1,375

RECORD OF VIOLATIONS

Nature of Violation	Pending	Received Since	Total for Disposition	Removed	Pending
Defective Construction..	5,041	293	5,334	242	5,092
No Permit.....	3,763	804	4,567	677	3,890
Unsafe.....	914	120	1,034	77	957
Total.....	9,718	1,217	10,935	996	9,939

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